

BOBBY JINDAL
GOVERNOR



PEGGY M. HATCH
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20100001
Agency Interest No. 4634

Mrs. CaSandra J. Cooper-Gates
Senior Vice President Administration
LOOP LLC – Port Complex
137 Northpark Drive
Covington, Louisiana 70433-5071

RE: Part 70 Operating Permit
LOOP LLC - Port Complex
Galliano, Lafourche Parish, Louisiana

Dear CaSandra J. Cooper-Gates:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the ____ of _____, 2016, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2011.

Permit No.: 1560-00027-V0

Sincerely,

Sam L. Phillips
Assistant Secretary

SGQ
c: EPA Region VI

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
LOOP LLC
PORT COMPLEX
PROPOSED PART 70 AIR OPERATING INITIAL PERMIT

The LDEQ, Office of Environmental Services, is accepting written comments on an Initial Part 70 Air Operating Permit for LOOP LLC, 137 Northpark Drive, Covington, Louisiana 70433-5071 for the Port Complex. **The facility is located four miles northeast of Galliano, Lafourche Parish.**

LOOP LLC requested an initial Part 70 air operating permit for the Port Complex. This facility was permitted under a State Permit No. 1560-00027-03 dated June 12, 2007.

LOOP LLC proposes to expand its Clovelly Dome Storage Terminal and bring the facility under Part 70 requirements as follows:

1. Add six (6) 600,000 bbl crude oil storage tanks (Emission Point Nos. 16-10 through 21-10);
2. Add one 520 hp Emergency Generator (Emission Point 1-10);
3. Include the new tanks and the landing losses in the existing cap (Emission Point TANK CAP);
4. Update fugitive emissions based on the modification;
5. Update the emissions based on a Reid Vapor Pressure (RVP) change from 5 to 8;
6. Update the emissions of the tanks based on the existing tank fittings;
7. Remove from the inventory a Turbine Generator (Emission Point 7-78);
8. Remove from the inventory a Small Boat Harbor Fire Pump (Emission Point 16-78),
9. Update the nomenclature and emissions for the engines based on audit, AP-42 emission factors and source description; and
10. Update the insignificant activities based on the audit and modification.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	1.05	2.34	+ 1.29
SO ₂	22.56	1.88	- 20.68
NO _x	45.56	51.23	+ 5.67
CO	1.76	10.01	+ 8.25
VOC **	93.82	182.59	+ 88.77*
** VOC (TAPs)	3.06	3.70	+ 0.64

- * LOOP LLC – Port Complex is now a regulated facility under Prevention of Significant Deterioration (PSD) program; the facility is currently a minor source of criteria pollutants and the current changes do not constitute a major modification.

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Wednesday, April 20, 2011.** Written comments will be considered prior to a final permit decision.

Information forwarded by email should follow the statewide email policies. Attachments included with emails may be blocked due to restrictions on file size or type. For details check the following link, <http://doa.louisiana.gov/ocs/email/policies.htm>

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The proposed permit and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

Additional copies may be reviewed at LaFourche Parish Library - Golden Meadow Branch, 1403 North Bayou Drive, Golden Meadow, LA.

Inquiries or requests for additional information regarding this permit action should be directed to Syed Quadri, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3396.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at DEQ.PUBLICNOTICES@LA.GOV or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.asp.

All correspondence should specify AI Number 4634, Permit Number 1560-00027-V0, and Activity Number PER20100001.

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
Galliano, Lafourche Parish, Louisiana**

I. Background

LOOP LLC - Port Complex consists of pipeline terminal facilities existing in Galliano and Leeville located in Lafourche Parish. The LOOP LLC - Port Complex currently operates under Permit No. 1560-00027-03, issued June 12, 2007.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by LOOP LLC on December 23, 2010 requesting a Part 70 operating permit. Additional information as of February 4, 2011 was also received.

III. Description

The LOOP LLC - Port Complex consists of the Clovelly Dome Storage Terminal in Galliano, the Small Boat Harbor in Leeville, the Fourchon Booster Station in Leeville, and the Marine Offloading Terminal in Grand Isle Block 59 of the Gulf of Mexico. The Clovelly Dome Storage Terminal consists of nine underground storage caverns. These caverns provide storage for crude oil prior to pipeline delivery. Eight of the caverns have a capacity of approximately 6 MM barrels of oil, and one cavern has a capacity of 3 MM barrels of oil. The terminal also consist of surface facilities located in the same general vicinity which include a Brine Storage Reservoir, Operations Building, crude oil storage tanks, fuel and slop oil tanks, a turbine generator, and ancillary equipment. The Small Boat Harbor, which is located on Bayou Lafourche, shelters crew and work boats and includes hose testing facilities. The Fourchon Booster Station is a secured unmanned facility with two large diesel storage tanks and a few small storage tanks. Emission control systems utilized at the LOOP Complex facilities include the latest storage tank technology, mechanical seals on pumps, and low sulfur fuel oil.

LOOP LLC proposes to expand its Clovelly Dome Storage Terminal and bring the facility under Part 70 requirements as follows:

1. Add six (6) 600,000 bbl crude oil storage tanks (Emission Point Nos. 16-10 through 21-10);
2. Add one 520 hp Emergency Generator (Emission Point 1-10);
3. Include the new tanks and the landing losses in the existing cap (Emission Point TANK CAP);
4. Update fugitive emissions based on the modification;
5. Update the emissions based on a Reid Vapor Pressure (RVP) change from 5 to 8;

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6. Update the emissions of the tanks based on the existing tank fittings;
7. Remove from the inventory a Turbine Generator (Emission Point 7-78);
8. Remove from the inventory a Small Boat Harbor Fire Pump (Emission Point 16-78);
9. Update the nomenclature and emissions for the engines based on audit, AP-42 emission factors and source description; and
10. Update the insignificant activities based on the audit and modification.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	1.05	2.34	+ 1.29
SO ₂	22.56	1.88	- 20.68
NO _x	45.56	51.23	+ 5.67
CO	1.76	10.01	+ 8.25
VOC **	93.82	182.59	+ 88.77*

- * LOOP LLC – Port Complex will in future be a regulated facility under Prevention of Significant Deterioration (PSD) program; the facility was previously a minor source of criteria pollutants and the current changes do not constitute a major modification.

**VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):			
Pollutant	Before	After	Change
Acetaldehyde	0.001	0.04	+ 0.04
Benzene	0.924	1.20	+ 0.28
Cumene	0.023	0.03	+ 0.01
Ethyl benzene	0.124	0.15	+ 0.03
Formaldehyde	0.001	0.06	+ 0.06
n-Hexane	0.948	1.12	+ 0.17
Toluene	0.590	0.66	+ 0.07
Xylenes	0.447	0.44	- 0.01
Total	3.06	3.70	0.64
Other VOC		178.89	

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**LOOP LLC - Port Complex
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Galliano, Lafourche Parish, Louisiana**

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70 and the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a minor source of toxic air pollutants (TAPs) under LAC 33:III.Chapter 51 and an area source under the federal requirements.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge and in *The Lafourche Gazette* in Lafourche Parish on March **, 2011. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on March **, 2011. The draft permit was also submitted to US EPA Region VI on March **, 2011. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed modification were reviewed by LDEQ to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

AIR PERMIT BRIEFING SHEET
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LOOP LLC - Port Complex
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Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
NA			

VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - tons				
		PM ₁₀	SO ₂	NO _x	CO	VOC
NA						

IX. Insignificant Activities

ID No.:	Description	Citation
2-78	Diesel Fuel Tank for Turbine Generator (Clovelly Dome), 8,200 gallons	LAC 33:III.501.B.5.A.3
22-78	Diesel Fuel Tank for Emergency Crude Pump (Clovelly Dome), 8,200 gallons	LAC 33:III.501.B.5.A.3
25-88	Tank 3 – Operations Center – Diesel Tank (Clovelly Dome), 550 gallons	LAC 33:III.501.B.5.A.3
26-88	Tank 4 – Operations Center – Diesel Tank (Clovelly Dome), 4,000 gallons	LAC 33:III.501.B.5.A.3
27-88	Tank 5 – Fourchon Booster Station Diesel Tank, 1,000 gallons	LAC 33:III.501.B.5.A.3
28-88	Tank 6 – Fourchon Booster Station Emergency Generator Diesel Tank (Clovelly Dome), 322 gallons	LAC 33:III.501.B.5.A.3
29-88	Tank 7 – Fourchon Booster Station Dock Diesel Tank, 560 gallons	LAC 33:III.501.B.5.A.3
30-88	Tank 8 – Clovelly Day Tank for Fire Pumps, 80 gallons	LAC 33:III.501.B.5.A.2

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LOOP LLC - Port Complex
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ID No.:	Description	Citation
31-88	Tank 9 – Clovelly Day Tank for Generators, 115 gallons	LAC 33:III.501.B.5.A.2
32-88	Tank 10 – Clovelly Underground Slop Oil Tank by Lab, 2,000 gallons	LAC 33:III.501.B.5.A.3
34-88	Tank 12 – Small Boat Harbor Diesel Tank, 260 gallons	LAC 33:III.501.B.5.A.3
36-89	Day Tank for Operations Center Standby Generator (Clovelly Dome), 94 gallons	LAC 33:III.501.B.5.A.2
37-91	Small Boat Harbor Diesel Tank, 564 gallons	LAC 33:III.501.B.5.A.3
*	Emergency Portable Generator Engines	LAC 33:III.501.B.5.B.45

* Exemption for portable generator engines is granted on the basis that the rental equipment is not subject to the New Source Performance Standard, 40 CFR 60 Subpart IIII or JJJJ and NESHAP and 40 CFR 63 Subpart ZZZZ. In accordance with 40 CFR 1068.31(e), a nonroad engine ceases to be a nonroad engine and becomes a stationary engine if it is used or will be used at this facility for 12 months or longer.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
Galliano, Lafourche Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements		LAC 33:III.Chapter																			
ID	Description	5 ^A	509	9	11	13	15	2103	2104*	2107	2111	2113	2115	2116*	2121	22	29*	51*	53*	56	59*
UNF01	LPC, LOOP – Port Complex	1		1	1	1	2				1	1	2				1	2		1	2
EQT03	1-78, Crude Relief Tank (Cloveilly Dome)							1													
EQT04	5-78, Slop Oil Tank (Small Boat Harbor)							2													
EQT06	11-78, Fourchon Booster Station Tank No. 1 – Diesel Fuel							2													
EQT07	12-78, Salt Dome Cavities (9), Piping, and Brine Storage Reservoir (Cloveilly Dome)																				
EQT08	13-78, Fourchon Booster Station Tank No. 2 – Diesel Fuel							2													
EQT09	15-78, 805 hp Fourchon Booster Station –Standby Generator				1	1															
EQT11	17-78, 671 hp Operations Center Standby Generator (Cloveilly Dome)				1	1															
EQT12	18-78, 860 hp Emergency Crude Transfer Pump (Cloveilly Dome)				1	1															
EQT13	19-78, 10 hp Portable Diesel Generator (Cloveilly Dome)				1	1															
EQT14	20-78, Clovelly Fire Pump				1	1															
EQT15	21-78, Standby Generator – Brine Storage Reservoir (Cloveilly Dome)				1	1															

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LOOP LLC - Port Complex

Agency Interest No.: 4634

LOOP LLC

Galliano, Lafourche Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:		Description	LAC 33:III.Chapter																		
			5 ^A	509	9	11	13	15	2103	2104*	2107	2111	2113	2115	2116*	2121	22	29*	51*	53*	56
EQT16	23-88, Tank 1 Operations Center -- Gasoline Tank (Clovelly Dome)																				
EQT17	24-88, Tank 2 Operations Center -- Gasoline Tank (Clovelly Dome)																				
EQT18	35-88, Fire School Pump (Clovelly Dome)					1	1														
EQT19	38-91, Operations Center Fire Pump (Clovelly Dome)						1	1													
EQT20	5-99, Crude Oil Tank Farm Firewater Pump (Clovelly Dome)						1	1													
EQT21	1-07, Emergency Generator						1	1													
EQT22	2-07, Emergency Generator						1	1													
EQT23	3-07, Emergency Generator						1	1													
EQT24	4-07, Emergency Generator						1	1													
EQT25	5-07, Emergency Generator						1	1													
EQT26	6-07, Emergency Generator						1	1													
EQT27	1-99, Tank 6401 (Clovelly Dome) External Floating Roof (EFR)																				
EQT28	2-99, Tank 6402 (Clovelly Dome)																				
EQT29	3-99, Tank 6405 (Clovelly Dome)																				
EQT30	4-99, Tank 6406 (Clovelly Dome)																				

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
Galliano, Lafourche Parish, Louisiana

Table 1. Applicable Louisiana and Federal Air Quality Requirements																						
ID No.:		LAC 33:III.Chapter																				
		5 ^A	509	9	11	13	15	2103	2104*	2107	2111	2113	2115	2116*	2121	22	29*	51*	53*	56	59*	
EQT31	6-02, Tank 6409 (Clovelly Dome)							1														
EQT32	7-02, Tank 6410 (Clovelly Dome)							1														
EQT33	8-07, Tank 6403 (Clovelly Dome)							1														
EQT34	9-07, Tank 6404 (Clovelly Dome)							1														
EQT35	10-07, Tank 6407 (Clovelly Dome)							1														
EQT36	11-07, Tank 6408 (Clovelly Dome)							1														
EQT37	12-07, Tank 6411 (Clovelly Dome)							1														
EQT38	13-07, Tank 6412 (Clovelly Dome)							1														
EQT39	14-07, Tank 6413 (Clovelly Dome)							1														
EQT40	15-07, Tank 6414 (Clovelly Dome)							1														
EQT41	16-10, Tank 6415 (Clovelly Dome)							1														
EQT42	17-10, Tank 6416 (Clovelly Dome)							1														
EQT43	18-10, Tank 6417 (Clovelly Dome)							1														
EQT44	19-10, Tank 6418 (Clovelly Dome)							1														
EQT45	20-10, Tank 6419 (Clovelly Dome)							1														
EQT46	21-10, Tank 6420 (Clovelly Dome)							1														
EQT47	1-10, 520 hp Emergency Generator				1	1																
FUG01	10-78, Fugitive Emissions (Clovelly Dome)										1				2							

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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LOOP LLC

Galliano, Lafourche Parish, Louisiana

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank -- The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LOOP LLC - Port Complex
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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements																				
ID No.:	Description	40 CFR 60 NSPS										40 CFR 61			40 CFR 63 NESHAP				40 CFR	
		A	K	Ka	Kb	Db	Dc	GG	KKK	IIII	A	J	V	A	HH	SS	VV	ZZZZ	64	68
UNF001	LPC, LOOP – Port Complex	1													1					2
EQT003	1-78, Crude Relief Tank (EFR) (Cloveley Dome)			1																
EQT004	5-78, Slop Oil Tank (Small Boat Harbor)			2																
EQT006	11-78, Fourchon Booster Station Tank No 1 – Diesel Fuel			2																
EQT007	12-78, Salt Dome Cavities (9), Piping, and Brine Storage Reservoir (Cloveley Dome)																			
EQT008	13-78, Fourchon Booster Station Tank No 2 – Diesel Fuel			2																
EQT009	15-78, 805 hp Fourchon Booster Station – Standby Generator									2								1		
EQT011	17-78, 671 hp Operations Center Standby Generator (Cloveley Dome)									2								1		
EQT012	18-78, 860 hp Emergency Crude Transfer Pump (Cloveley Dome)									2								1		
EQT013	19-78, 10 hp Portable Diesel Generator (Cloveley Dome)									2								1		
EQT014	20-78, Cloveley Fire Pump									2								1		
EQT015	21-78, Standby Generator – Brine Storage Reservoir (Cloveley Dome)									2								1		

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS										40 CFR 61				40 CFR 63 NESHAP				40 CFR	
		A	K	Ka	Kb	Db	Dc	GG	KKK	IIII		A	J	V	A	HH	SS	VV	ZZZZ	64	68
EQT016	23-88, Tank 1 Operations Center - Gasoline Tank (Clovelly Dome)				2											Subpart CCCCCC applies					
EQT017	24-88, Tank 2 Operations Center - Gasoline Tank (Clovelly Dome)				2											Subpart CCCCCC applies					
EQT018	35-88, Fire School Pump (Clovelly Dome)									2									1		
EQT019	38-91, Operations Center Fire Pump (Clovelly Dome)									2									1		
EQT020	5-99, Crude Oil Tank Farm Firewater Pump (Clovelly Dome)									2									1		
EQT021	1-07, Emergency Generator									2									1		
EQT022	2-07, Emergency Generator									2									1		
EQT023	3-07, Emergency Generator									2									1		
EQT024	4-07, Emergency Generator									2									1		
EQT025	5-07, Emergency Generator									2									1		
EQT026	6-07, Emergency Generator									2									1		
EQT027	1-99, Tank 6401 (Clovelly Dome) External Floating Roof				1																
EQT028	2-99, Tank 6402 (Clovelly Dome)				1																
EQT029	3-99, Tank 6405 (Clovelly Dome)				1																
EQT030	4-99, Tank 6406 (Clovelly Dome)				1																
EQT031	6-02, Tank 6409 (Clovelly Dome)				1																

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ID No.:	Description	40 CFR 60 NSPS										40 CFR 61			40 CFR 63 NESHAP				40 CFR			
		A	K	Ka	Kb	Db	Dc	GG	KKK	IIII	A	J	V	A	HH	SS	VV	ZZZZ	64	68		
EQT032	7-02, Tank 6410 (Cloveley Dome)				1																	
EQT033	8-07, Tank 6403 (Cloveley Dome)				1																	
EQT034	9-07, Tank 6404 (Cloveley Dome)				1																	
EQT035	10-07, Tank 6407 (Cloveley Dome)				1																	
EQT036	11-07, Tank 6408 (Cloveley Dome)				1																	
EQT037	12-07, Tank 6411 (Cloveley Dome)				1																	
EQT038	13-07, Tank 6412 (Cloveley Dome)				1																	
EQT039	14-07, Tank 6413 (Cloveley Dome)				1																	
EQT040	15-07, Tank 6414 (Cloveley Dome)				1																	
EQT041	16-10, Tank 6415 (Cloveley Dome)				1																	
EQT042	17-10, Tank 6416 (Cloveley Dome)				1																	
EQT043	18-10, Tank 6417 (Cloveley Dome)				1																	
EQT044	19-10, Tank 6418 (Cloveley Dome)				1																	
EQT045	20-10, Tank 6419 (Cloveley Dome)				1																	
EQT046	21-10, Tank 6420 (Cloveley Dome)				1																	
EQT047	1-10, 520 hp Emergency Generator									1									1			
FUG001	10-78, Fugitive Emissions (Cloveley Dome)																					

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
Galliano, Lafourche Parish, Louisiana

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LOOP LLC - Port Complex
 Agency Interest No.: 4634
 LOOP LLC
 Galliano, Lafourche Parish, Louisiana

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
UNF001 LPC, LOOP LLC – Port Complex	Comprehensive Toxic Air Pollutant Emission Control Program LAC 33:III.Chapter 51	Exempt	40 CFR 63.560(a)(2)	Facility is not a major source of toxic air pollutants as defined under LAC 33:III.5103 and 5105.B –Special Provisions
	Chemical Accident Prevention Provisions 40 CFR 68 Chemical Accident Prevention and Minimization of Consequences LAC 33:III.Chapter 59	Does not apply	40 CFR 68.10 LAC 33:III.5901	Facility does not store or process any referenced listed substance greater than the threshold amounts. [LAC 33:III.5901]
	LAC 33:III.1503. Emission Standards for Sulfur Dioxide	Exempt	LAC 33:III.1503.C	All the emission points sources emit SO ₂ emissions less than 5 tons/year
	Waste Gas Disposal LAC 33:III.2115	Does not apply	LAC 33:III.2115	Facility does not have any waste gas streams
EQT004, EQT006, and EQT008 5-78, Slop Oil Tank (Small Boat Harbor). 11-78 and 13-78, Fourchon Booster Station No. 2 Fuel Tank No. 1 and 2	Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds LAC 33:III.Chapter 21	Does not apply	LAC 33:III.2103.B	Stored material having the maximum true vapor pressure less than the threshold of 1.5 psia
	NSPS, Subpart Ka	Does not apply	40 CFR 60.110a(a)	Does not store petroleum liquids

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LOOP LLC - Port Complex
 Agency Interest No.: 4634
 LOOP LLC
 Galliano, Lafourche Parish, Louisiana

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
EQT009, EQT0011, EQT013, EQT015, EQT021 thru EQT26 Emergency Generator Engines	NSPS, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines 40 CFR 60.4200	Does not apply	40 CFR 60.4200(a)(2)(i) 40 CFR 60.4200(a)(3)	Engines are not fire pumps and were manufactured prior to April 1, 2006 and were not modified or reconstructed after July 11, 2005
EQT012, EQT014, and EQT018 thru EQT020 Fire Pump Engines	NSPS, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines 40 CFR 60.4200	Does not apply	40 CFR 60.4200(a)(2)(ii) 40 CFR 60.4200(a)(3)	Engines were manufactured prior to April 1, 2006 and were not modified or reconstructed after July 11, 2005
FUG001 10-78, Fugitive Emissions (Clovelly Dome)	Control of Emissions of Organic Compounds - Fugitive Emissions Control LAC 33:III.Chapter 21	Does not apply	LAC 33:III.2121.A	Not a listed facility
The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit				

General Information

AJ ID: 4634 LOOP LLC - Port Complex

Activity Number: PER20100001

Permit Number: 1560-00027-V0

Air - Title V Regular Permit Initial

Also Known As:	ID	Name	User Group	Start Date
	1560-00027	LOOP LLC - Port Complex	CDS Number	10-12-1996
	72-0723344	LOOP LLC - Port Complex	Federal Tax ID	11-21-1999
	LAD980698799	LOOP LLC - Port Complex	Hazardous Waste Notification	02-22-1983
	LA0049492	LPDES #	LPDES Permit #	08-25-2003
	WP0330	LWDPS #	LWDPS Permit #	06-25-2003
		Priority 2 Emergency Site	Priority 2 Emergency Site	07-20-2006
		Radiation General License	Radiation License Number	01-09-2002
	29-006030	UST Facility ID #	UST FID #	10-11-2002
	2164	LOOP LLC - Port Complex	Water Permitting	11-21-1999

Physical Location:

4 Mi NE of
Galliano, LA

Mailing Address:

PO Box 7250
Metairie, LA 700107250

Location of Front Gate:

29.4625 latitude, -90.305556 longitude, Coordinate Method: Lat\Long. - DMS, Coordinate Datum: NAD83

Related People:

Name	Mailing Address	Phone (Type)	Relationship
CaSandra Cooper-Gates	111 Veterans Blvd Ste 600 Metairie, LA 70005	5043639282 (WP)	Water Billing Party for
CaSandra Cooper-Gates	111 Veterans Blvd Ste 600 Metairie, LA 70005	5043639282 (WP)	Responsible Official for

Related Organizations:

Name	Address	Phone (Type)	Relationship
LOOP LLC	137 Northpark Blvd Covington, LA 70433	5043685667 (WP)	Air Billing Party for
LOOP LLC	137 Northpark Blvd Covington, LA 70433	5043685667 (WP)	UST Billing Party for
LOOP LLC	137 Northpark Blvd Covington, LA 70433	5043685667 (WP)	Owns
LOOP LLC	137 Northpark Blvd Covington, LA 70433	5043685667 (WP)	Operates

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20100001
Permit Number: 1560-00027-V0
Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
LOOP - Port Complex						
EQT 0003	1-78 - Crude Relief Tank (Clovelly Dome)	2.31 million gallons		23.1 MM gallons/yr	External Floating Roof (EFR)	8760 hr/yr
EQT 0004	5-78 - Slop Oil Tank (Small Boat Harbor)	79315 gallons		84000 gallons/yr	wastewater and lube oils	8760 hr/yr
EQT 0006	11-78 - Fourchon Booster Station No. 2 Fuel Tank No. 1	1.18 million gallons		23 MM gallons/yr		8760 hr/yr
EQT 0007	12-78 - Salt Dome Cavities (9), Piping, and Brine Storage Reservoir (Clovelly Dome)	1806 million gallons		600 MM bbl/yr		8760 hr/yr
EQT 0008	13-78 - Fourchon Booster Station No. 2 Fuel Tank No. 2 (Clovelly Dome)	1.18 million gallons		23 MM gallons/yr		8760 hr/yr
EQT 0009	15-78 - Fourchon Booster Station - Standby Generator		805 horsepower	805 horsepower		500 hr/yr
EQT 0011	17-78 - Operations Center Standby Generator (Clovelly Dome)		671 horsepower	671 horsepower		500 hr/yr
EQT 0012	18-78 - Emergency Crude Transfer Pump (Clovelly Dome)		860 horsepower	860 horsepower		500 hr/yr
EQT 0013	19-78 - Portable Diesel Generator (Clovelly Dome)		10 horsepower	10 horsepower		500 hr/yr
EQT 0014	20-78 - Clovelly Fire Pump		1.92 MM BTU/hr	1.92 MM BTU/hr		500 hr/yr
EQT 0015	21-78 - Standby Generator - Brine Storage Reservoir (Clovelly Dome)		108 horsepower	108 horsepower		500 hr/yr
EQT 0016	23-88 - Tank 1 Operations Center (Clovelly Dome)	1000 gallons		9000 gallons/yr		8760 hr/yr
EQT 0017	24-88 - Tank 2 Operations Center (Clovelly Dome)	1000 gallons		9000 gallons/yr		8760 hr/yr
EQT 0018	35-88 - Fire School Pump (Clovelly Dome)		400 horsepower	400 horsepower		500 hr/yr
EQT 0019	36-91 - Operations Center - Fire Pump (Clovelly Dome)		500 horsepower	500 horsepower		500 hr/yr
EQT 0020	5-99 - Crude Oil Tankfarm Firewater Pump (Clovelly Dome)		1100 horsepower	1100 horsepower		500 hr/yr
EQT 0021	1-07 - 470 bhp Emergency Generator (Small Boat Harbor)		470 brake hp	470 brake hp		500 hr/yr
EQT 0022	2-07 - 470 bhp Emergency Generator (Tank Facility)		470 brake hp	470 brake hp		500 hr/yr
EQT 0023	3-07 - 671 bhp Emergency Generator (Clovelly Dome)		671 brake hp	671 brake hp		500 hr/yr
EQT 0024	4-07 - 671 bhp Emergency Generator (Clovelly Control Room)		671 brake hp	671 brake hp		500 hr/yr
EQT 0025	5-07 - 268 bhp Emergency Generator (OC Warehouse)		268 brake hp	268 brake hp		500 hr/yr
EQT 0026	6-07 - 168 bhp Emergency Generator (LOCAP)		168 brake hp	168 brake hp		500 hr/yr
EQT 0027	1-99 - Tank 6401 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0028	2-99 - Tank 6402 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0029	3-99 - Tank 6405 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0030	4-99 - Tank 6406 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0031	6-02 - Tank 6409 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0032	7-02 - Tank 6410 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0033	8-07 - Tank 6403 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0034	9-07 - Tank 6404 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0035	10-07 - Tank 6407 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0036	11-07 - Tank 6408 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0037	12-07 - Tank 6411 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr

INVENTORIES

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20100001
Permit Number: 1560-00027-V0
Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
LOOP - Port Complex						
EQT 0038	13-07 - Tank 6412 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0039	14-07 - Tank 6413 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0040	15-07 - Tank 6414 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0041	16-10 - Tank 6415 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0042	17-10 - Tank 6416 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0043	18-10 - Tank 6417 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0044	19-10 - Tank 6418 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0045	20-10 - Tank 6419 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0046	21-10 - Tank 6420 (Clovelly Dome)	600000 bbl		25000 bbl/day	EFR	8760 hr/yr
EQT 0047	1-10 - 520 hp Emergency Generator		520 brake hp			500 hr/yr
FUG 0001	10-78 - Fugitive Emissions (Clovelly Dome)			Not applicable		8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
LOOP - Port Complex							
EQT 0009	15-78 - Fourchon Booster Station - Standby Generator	237	5014	57		16	850
EQT 0011	17-78 - Operations Center Standby Generator (Clovelly Dome)	161	6759	67		18	865
EQT 0012	18-78 - Emergency Crude Transfer Pump (Clovelly Dome)	225	5300	6		16	880
EQT 0013	19-78 - Portable Diesel Generator (Clovelly Dome)		212	33		10	1100
EQT 0014	20-78 - Clovelly Fire Pump	238	1943	42		12	185
EQT 0015	21-78 - Standby Generator - Brine Storage Reservoir (Clovelly Dome)	212	1087.93	33		10	1100
EQT 0018	35-88 - Fire School Pump (Clovelly Dome)	386.2	790	21		6	820
EQT 0019	38-91 - Operations Center - Fire Pump (Clovelly Dome)	386.2	790	21		6	820
EQT 0020	5-99 - Crude Oil Tankfarm Firewater Pump (Clovelly Dome)	1.35	104	1.28		6	870
EQT 0021	1-07 - 470 bhp Emergency Generator (Small Boat Harbor)	307.7	3625	.5		9.38	901
EQT 0022	2-07 - 470 bhp Emergency Generator (Tank Facility)	307.7	3625	.5		9.38	901
EQT 0023	3-07 - 671 bhp Emergency Generator (Clovelly Dome)	220.69	2600	.5		9.83	810
EQT 0024	4-07 - 671 bhp Emergency Generator (Clovelly Control Room)	220.69	2600	.5		9.83	810
EQT 0025	5-07 - 268 bhp Emergency Generator (OC Warehouse)	135.94	1130	.42		10.25	1056
EQT 0026	6-07 - 168 bhp Emergency Generator (LOCAP)	304.9	898	.25		10.58	950
EQT 0047	1-10 - 520 hp Emergency Generator	220.69	2600	.5		9.83	810

Relationships:

INVENTORIES

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20100001
Permit Number: 1560-00027-V0
Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Group Type	Group Description
CRG 0001	Common Requirements Group	GP - Generators and Pumps
CRG 0002	Common Requirements Group	STKS - Storage Tanks
GRP 0003	Equipment Group	TANK CAP - Crude Oil Storage Tank CAP (Clovevely Dome)
UNF 0001	Unit or Facility Wide	LPC - LOOP - Port Complex

Group Membership:

ID	Description	Member of Groups
EQT 0009	15-78 - Fourchon Booster Station - Standby Generator	CRG000000000001
EQT 0011	17-78 - Operations Center Standby Generator (Clovevely Dome)	CRG000000000001
EQT 0012	18-78 - Emergency Crude Transfer Pump (Clovevely Dome)	CRG000000000001
EQT 0013	19-78 - Portable Diesel Generator (Clovevely Dome)	CRG000000000001
EQT 0014	20-78 - Clovely Fire Pump	CRG000000000001
EQT 0015	21-78 - Standby Generator - Brine Storage Reservoir (Clovevely Dome)	CRG000000000001
EQT 0018	35-88 - Fire School Pump (Clovevely Dome)	CRG000000000001
EQT 0019	38-91 - Operations Center - Fire Pump (Clovevely Dome)	CRG000000000001
EQT 0020	5-99 - Crude Oil Tankfarm Firewater Pump (Clovevely Dome)	CRG000000000001
EQT 0021	1-07 - 470 bhp Emergency Generator (Small Boat Harbor)	CRG000000000001
EQT 0022	2-07 - 470 bhp Emergency Generator (Tank Facility)	CRG000000000001
EQT 0023	3-07 - 671 bhp Emergency Generator (Clovevely Dome)	CRG000000000001
EQT 0024	4-07 - 671 bhp Emergency Generator (Clovevely Control Room)	CRG000000000001
EQT 0025	5-07 - 268 bhp Emergency Generator (OC Warehouse)	CRG000000000001
EQT 0026	6-07 - 168 bhp Emergency Generator (LOCAP)	CRG000000000001
EQT 0027	1-99 - Tank 6401 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0028	2-99 - Tank 6402 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0029	3-99 - Tank 6405 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0030	4-99 - Tank 6406 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0031	6-02 - Tank 6409 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0032	7-02 - Tank 6410 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0033	8-07 - Tank 6403 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0034	9-07 - Tank 6404 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0035	10-07 - Tank 6407 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0036	11-07 - Tank 6408 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0037	12-07 - Tank 6411 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0038	13-07 - Tank 6412 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0039	14-07 - Tank 6413 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0040	15-07 - Tank 6414 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0041	16-10 - Tank 6415 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0042	17-10 - Tank 6416 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0043	18-10 - Tank 6417 (Clovevely Dome)	CRG000000000002, GRP000000000003
EQT 0044	19-10 - Tank 6418 (Clovevely Dome)	CRG000000000002, GRP000000000003

INVENTORIES

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20100001
Permit Number: 1560-00027-V0
Air - Title V Regular Permit Initial

Group Membership:

ID	Description	Member of Groups
EQT 0045	20-10 - Tank 6419 (Clovelly Dome)	CRG000000000002, GRP000000000003
EQT 0046	21-10 - Tank 6420 (Clovelly Dome)	CRG000000000002, GRP000000000003

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
1364	1364 Crude Oil Pipeline - Facility with Over 500,000 BBLs Storage Capacity		

SIC Codes:

4612	Crude petroleum pipelines	UNF 001
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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20100001

Permit Number: 1560-00027-V0

Air - Title V Regular Permit Initial

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
LOOP - Port Complex															
EQT 0003 1-78													0.38	0.38	1.65
EQT 0004 5-78													<0.01	<0.01	0.01
EQT 0006 11-78													0.10	0.10	0.46
EQT 0007 12-78													0.40	0.40	1.74
EQT 0008 13-78													0.10	0.10	0.46
EQT 0009 15-78	4.43	4.43	1.11	19.32	19.32	4.83	0.56	0.56	0.14	0.33	0.33	0.08	0.57	0.57	0.14
EQT 0011 17-78	3.69	3.69	0.92	16.10	16.10	4.03	0.47	0.47	0.12	0.27	0.27	0.07	0.47	0.47	0.12
EQT 0012 18-78	4.73	4.73	1.18	20.64	20.64	5.16	0.60	0.60	0.15	0.35	0.35	0.09	0.61	0.61	0.15
EQT 0013 19-78	0.07	0.07	0.02	0.31	0.31	0.08	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.01
EQT 0014 20-78	1.82	1.82	0.46	8.46	8.46	2.11	0.59	0.59	0.15	0.56	0.56	0.14	0.67	0.67	0.17
EQT 0015 21-78	0.72	0.72	0.18	3.35	3.35	0.84	0.24	0.24	0.06	0.22	0.22	0.06	0.27	0.27	0.07
EQT 0016 23-88													0.08	0.08	0.27
EQT 0017 24-88													0.08	0.08	0.27
EQT 0018 35-88	2.67	2.67	0.67	12.40	12.40	3.10	0.88	0.88	0.22	0.82	0.82	0.21	0.99	0.99	0.25
EQT 0019 36-91	3.34	3.34	0.84	15.50	15.50	3.88	1.10	1.10	0.28	1.03	1.03	0.26	1.24	1.24	0.31
EQT 0020 5-99	1.34	1.34	0.34	28.92	28.92	7.23	0.18	0.18	0.05	0.44	0.44	0.11	0.45	0.45	0.11
EQT 0021 1-07	3.14	3.14	0.78	14.57	14.57	3.64	1.03	1.03	0.26	0.96	0.96	0.24	1.16	1.16	0.29
EQT 0022 2-07	3.14	3.14	0.78	14.57	14.57	3.64	1.03	1.03	0.26	0.96	0.96	0.24	1.16	1.16	0.29
EQT 0023 3-07	3.69	3.69	0.92	16.10	16.10	4.03	0.47	0.47	0.12	0.27	0.27	0.07	0.47	0.47	0.12
EQT 0024 4-07	3.69	3.69	0.92	16.10	16.10	4.03	0.47	0.47	0.12	0.27	0.27	0.07	0.47	0.47	0.12
EQT 0025 5-07	1.79	1.79	0.45	8.31	8.31	2.08	0.59	0.59	0.15	0.55	0.55	0.14	0.66	0.66	0.17
EQT 0026 6-07	1.12	1.12	0.28	5.21	5.21	1.30	0.37	0.37	0.09	0.34	0.34	0.09	0.41	0.41	0.10
EQT 0047 1-10	0.62	0.62	0.16	4.98	4.98	1.25	0.64	0.64	0.16	<0.01	<0.01	<0.01	0.07	0.07	0.02

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20100001
Permit Number: 1560-00027-V0
Air - Title V Regular Permit Initial

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20100001

Permit Number: 1560-00027-V0

Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0019 38-91	Benzene	0.003	0.003	<0.01
	Formaldehyde	0.004	0.004	<0.01
EQT 0020 5-99	Benzene	0.01	0.01	<0.01
	Toluene	0.002	0.002	<0.01
EQT 0021 1-07	Acetaldehyde	0.003	0.003	<0.01
	Benzene	0.003	0.003	<0.01
	Formaldehyde	0.004	0.004	<0.01
EQT 0022 2-07	Acetaldehyde	0.003	0.003	<0.01
	Benzene	0.003	0.003	<0.01
	Formaldehyde	0.004	0.004	<0.01
EQT 0023 3-07	Benzene	0.004	0.004	<0.01
EQT 0024 4-07	Benzene	0.004	0.004	<0.01
EQT 0025 5-07	Formaldehyde	0.002	0.002	<0.01
EQT 0047 1-10	Acetaldehyde	0.003	0.003	<0.01
	Benzene	0.003	0.003	<0.01
	Formaldehyde	0.004	0.004	<0.01
GRP 0003 TANK CAP	Benzene	0.23		1.03
	Cumene	<0.01		0.02
	Ethyl benzene	0.03		0.11
	Toluene	0.13		0.58
	Xylene (mixed isomers)	0.08		0.35
	n-Hexane	0.25		1.07
UNF 0001 LPC	Acetaldehyde			0.04
	Benzene			1.20
	Cumene			0.03
	Ethyl benzene			0.15
	Formaldehyde			0.06
	Toluene			0.66
	Xylene (mixed isomers)			0.44
	n-Hexane			1.12

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20100001

Permit Number: 1560-00027-V0

Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0003 1-78	Benzene	0.004	0.004	0.02
	Ethyl benzene	<0.01	<0.01	0.01
	Toluene	0.002	0.002	0.01
	Xylene (mixed isomers)	<0.01	<0.01	0.01
EQT 0006 11-78	n-Hexane	0.004	0.004	0.02
	Benzene	<0.01	<0.01	<0.01
	Ethyl benzene	<0.01	<0.01	<0.01
	Toluene	0.002	0.002	0.01
	Xylene (mixed isomers)	0.01	0.01	0.03
EQT 0007 12-78	Benzene	0.002	0.002	0.01
	Cumene	<0.01	<0.01	<0.01
	Ethyl benzene	0.002	0.002	0.01
	Toluene	0.004	0.004	0.02
EQT 0008 13-78	Xylene (mixed isomers)	0.01	0.01	0.02
	n-Hexane	0.002	0.002	0.01
	Benzene	<0.01	<0.01	<0.01
	Ethyl benzene	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	0.01
EQT 0009 15-78	Xylene (mixed isomers)	0.01	0.01	0.03
	Benzene	0.004	0.004	<0.01
EQT 0011 17-78	Benzene	0.004	0.004	<0.01
EQT 0012 18-78	Benzene	0.005	0.005	<0.01
EQT 0014 20-78	Formaldehyde	0.002	0.002	<0.01
EQT 0016 23-88	Benzene	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
	n-Hexane	<0.01	<0.01	0.01
EQT 0017 24-88	Benzene	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
	n-Hexane	<0.01	<0.01	<0.01
EQT 0018 35-88	Acetaldehyde	0.002	0.002	<0.01
	Benzene	0.003	0.003	<0.01
	Formaldehyde	0.003	0.003	<0.01
EQT 0019 38-91	Acetaldehyde	0.003	0.003	<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20100001

Permit Number: 1560-00027-V0

Air - Title V Regular Permit Initial

SPECIFIC REQUIREMENTS

AJ ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20100001

Permit Number: 1560-00027-V0

Air - Title V Regular Permit Initial

EQT 0003 1-78 - Crude Relief Tank (Glovally Dome)

- 1 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap width ≤ 1.5 in (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 2 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap area ≤ 10.0 in²/ft (212 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 3 [40 CFR 60.112a(a)(1)(i)(C)] One end of the primary seal metallic shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 24 inches (61 centimeters) above the stored liquid surface. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(C)]
There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(D)]
The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)]
Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112a(a)(1)(ii)(B). Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(A)]
- 7 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap width ≤ 0.5 in (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 8 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap area ≤ 1.0 in²/ft (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 9 [40 CFR 60.112a(a)(1)(ii)(C)] There are to be no holes, tears or other openings in the secondary seal or seal fabric. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(C)]
- 10 [40 CFR 60.112a(a)(1)(iii)] Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for automatic bleeder vents, rim space vents and leg sleeves with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use or as described in 40 CFR 60.112a(a)(1)(iv). Close automatic bleeder vents at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112a(a)(1)(iii)]
- 11 [40 CFR 60.112a(a)(1)(iv)] Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka. [40 CFR 60.112a(a)(1)(iv)]
- 12 [40 CFR 60.112a(a)(1)] Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112a(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40 CFR 60.112a(a)(1)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20100001

Permit Number: 1560-00027-V0

Air - Title V Regular Permit Initial

EQT 0003 1-78 - Crude Relief Tank (Clovally Dome)

- | | | |
|----|------------------------------|---|
| 13 | [40 CFR 60.113a(a)(1)(i)(A)] | Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Accomplish all primary seal inspections or gap measurements which require the removal or dislodging of the secondary seal as rapidly as possible and replace the secondary seal as soon as possible. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(A)] |
| | | Which Months: All Year Statistical Basis: None specified |
| 14 | [40 CFR 60.113a(a)(1)(i)(B)] | Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Subpart Ka. [40 CFR 60.113a(a)(1)(i)(B)] |
| | | Which Months: All Year Statistical Basis: None specified |
| 15 | [40 CFR 60.113a(a)(1)(i)(D)] | Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessel on which the measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement process required by 40 CFR 60.113a(a)(1)(ii) and the calculation required by 40 CFR 60.113a(a)(1)(iii). Keep records of each gap measurement at the plant for a period of at least 2 years following the date of measurement. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(D)] |
| 16 | [40 CFR 60.113a(a)(1)(i)(E)] | Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113a(a)(1)(iii) or the measured maximum seal gap exceeds the limitations specified by 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(E)] |
| 17 | [40 CFR 60.113a(a)(1)(iv)] | Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present. Subpart Ka. [40 CFR 60.113a(a)(1)(iv)] |
| 18 | [40 CFR 60.115a] | Petroleum liquid storage data recordkeeping by electronic or hard copy continuously. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Ka. [40 CFR 60.115a(d)] |
| 19 | [LAC 33:III.2103.B] | Equip with a submerged fill pipe. |
| 20 | [LAC 33:III.2103.D.2.a] | Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. |
| 21 | [LAC 33:III.2103.D.2.b] | Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. |
| 22 | [LAC 33:III.2103.D.2.c] | Seal gap area $\leq 1 \text{ in}^2/2 \text{ ft}$ of tank diameter (6.5 cm ² /0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. |
| 23 | [LAC 33:III.2103.D.2.d] | Seal gap area $\leq 10 \text{ in}^2/2 \text{ ft}$ of tank diameter (65 cm ² /0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. |
| | | Which Months: All Year Statistical Basis: None specified |
| 24 | [LAC 33:III.2103.D.2.e] | Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. |
| | | Which Months: All Year Statistical Basis: None specified |
| 25 | [LAC 33:III.2103.D.2.e] | Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. |

SPECIFIC REQUIREMENTS

AJ ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20100001

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EQT 0003 1-78 - Crude Relief Tank (Clovellly Dome)

- 26 [LAC 33:III.2103.D.2.c] Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. Which Months: All Year Statistical Basis: None specified
- 27 [LAC 33:III.2103.D.2.c] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2.
- 28 [LAC 33:III.2103.D.2.c] Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. Which Months: All Year Statistical Basis: None specified
- 29 [LAC 33:III.2103.D.3] Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vents, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.
- 30 [LAC 33:III.2103.D] Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
- 31 [LAC 33:III.2103.H.1] Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1.
- 32 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e.
- 33 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0016 23-88 - Tank 1 Operations Center (Clovellly Dome)

- 34 [40 CFR 63.11116(a)] Permittee shall not handle dispensing of gasoline in a manner that would result in vapor releases to the atmosphere for extended period of time. The following measures, not all inclusive, shall be undertaken:
- a) minimize gasoline spills; b) clean up spills as expeditiously as practicable; c) cover all open gasoline containers and all gasoline storage tank ill-pipes with a gasketed seal when not in use; d) minimize gasoline sent to open waste collection system that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators; and e) keep records available within 24 hours of a request by the Administrator to document gasoline throughput. [40 CFR 63.11116(a), 40 CFR 63.11116(b)]
- 35 [LAC 33:III.2103.A] Equip with a submerged fill pipe.
- 36 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e.
- 37 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0017 24-88 - Tank 2 Operations Center (Clovellly Dome)

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20100001

Permit Number: 1560-00027-V0

Air - Title V Regular Permit Initial

EQT 0017 24-88 - Tank 2 Operations Center (Cloveley Dome)

38 [40 CFR 63.11116(a)]

Permittee shall not handle dispensing of gasoline in a manner that would result in vapor releases to the atmosphere for extended period of time. The following measures, not all inclusive, shall be undertaken:

39 [LAC 33:III.2103.A]

a) minimize gasoline spills; b) clean up spills as expeditiously as practicable; c) cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; d) minimize gasoline sent to open waste collection system that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators; and e) keep records available within 24 hours of a request by the Administrator to document gasoline throughput. [40 CFR 63.11116(a), 40 CFR 63.11116(b)]

Equip with a submerged fill pipe.

40 [LAC 33:III.2103.H.3]

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e.

41 [LAC 33:III.2103.I]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0047 1-10 - 520 hp Emergency Generator

42 [40 CFR 60.4205(b)]

Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart IIII. [40 CFR 60.4205(b)]

43 [40 CFR 60.4206]

Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart IIII.

44 [40 CFR 60.4207(b)]

Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart IIII. [40 CFR 60.4207(b)]

45 [40 CFR 60.4208(a)]

After December 31, 2008, do not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines. Subpart IIII. [40 CFR 60.4208(a)]

46 [40 CFR 60.4209(a)]

Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart IIII. [40 CFR 60.4209(a)]

Which Months: All Year Statistical Basis: None specified

47 [40 CFR 60.4211(a)]

Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart IIII. [40 CFR 60.4211(a)]

Ensure engine is certified to the emission standards in 40 CFR 60.4205(b), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart IIII. [40 CFR 60.4211(c)]

49 [40 CFR 60.4214(b)]

Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. Record the time of operation of the engine and the reason the engine was in operation during that time. Subpart IIII. [40 CFR 60.4214(b)]

50 [40 CFR 63.6590(c)]

Compliance with all the applicable provisions of NSPS, 40 CFR 60 Subpart IIII has been determined to be compliance in accordance with all the applicable requirements of NESHAP, 40 CFR 63 Subpart ZZZZ. [40 CFR 63.6590(c)]

SPECIFIC REQUIREMENTS

AJ ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20100001

Permit Number: 1560-00027-V0

Air - Title V Regular Permit Initial

EQT 0047 1-10 - 520 hp Emergency Generator

51 [LAC 33-III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

52 [LAC 33-III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

FUG 0001 10-78 - Fugitive Emissions (Clovevely Dome)

53 [LAC 33-III.2111]

Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

GRP 0003 TANK CAP - Crude Oil Storage Tank CAP (Clovevely Dome)

Group Members: EQT 0027EQT 0028EQT 0029EQT 0030EQT 0031EQT 0032EQT 0033EQT 0034EQT 0035EQT 0036EQT 0037EQT 0038EQT 0039EQT 0040EQT 0041EQT 0042EQT 0043EQT 0044EQT 0045EQT 0046

54 [LAC 33-III.507.H.1.a]

Permittee shall show compliance with the limits of this permit by maintaining the total overall calculated VOC emissions, Emission Point TANK CAP based on the throughput and landing losses from all the tanks listed below to no more than 175.28 tons per year. The overall VOC emission of the tanks shall be calculated using tank throughput and landing losses shall be recorded each month, as well as the VOC emission calculated for all the tanks for the last twelve months and recorded each month. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total overall calculated VOC emissions from the tanks above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the overall calculated VOC emissions shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year

Emission Point 1-99 thru 4-99, 6-02, 7-02, 8-07 thru 15-07, and 16-10 thru 21-10.

CRG 0001 GP - Generators and Pumps

Group Members: EQT 0009EQT 0011EQT 0012EQT 0013EQT 0014EQT 0015EQT 0018EQT 0019EQT 0020EQT 0021EQT 0022EQT 0023EQT 0024EQT 0025EQT 0026

55 [40 CFR 63.6595(a)]

Comply with the applicable emission limitations and operating limitations under the provisions of NESHAP, 40 CFR 63 Subpart ZZZZ no later than May 3, 2013. [40 CFR 63.6595(a)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20100001

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Air - Title V Regular Permit Initial

CRG 0001 GP - Generators and Pumps

- 56 [40 CFR 63.6603(a)] Equipment/operational data monitored by visual inspection/determination annually or every 1,000 hours of operation, whichever comes first. Inspect air cleaner. Subpart ZZZZ. [40 CFR 63.6603(a)]
- 57 [40 CFR 63.6603(a)] Which Months: All Year Statistical Basis: None specified
Equipment/operational data monitored by visual inspection/determination annually or every 500 hours of operation, whichever comes first. Inspect all hoses and belts, and replace as necessary. Subpart ZZZZ. [40 CFR 63.6603(a)]
- 58 [40 CFR 63.6603(a)] Which Months: All Year Statistical Basis: None specified
Change oil and filter every 500 hours of operation or annually, whichever comes first. Subpart ZZZZ. [40 CFR 63.6603(a)]
- 59 [40 CFR 63.6603(a)] Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. Subpart ZZZZ. [40 CFR 63.6603(a), 40 CFR 63.6625(h)]
- 60 [40 CFR 63.6605(a)] Be in compliance with emission limitations and operating limitations in 40 CFR 63 Subpart ZZZZ at all times. Subpart ZZZZ. [40 CFR 63.6605(a)]
- 61 [40 CFR 63.6605(b)] Operate and maintain at all times in a manner consistent with safety and good air pollution control practices for minimizing emissions. Subpart ZZZZ. [40 CFR 63.6605(b)]
- 62 [40 CFR 63.6625(e)] Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Subpart ZZZZ. [40 CFR 63.6625(e)]
- 63 [40 CFR 63.6625(f)] Install a non-resettable hour meter. Subpart ZZZZ. [40 CFR 63.6625(f)]
- 64 [40 CFR 63.6640(a)] Demonstrate continuous compliance with each applicable emission limitation and operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d according to methods specified in 40 CFR 63 Subpart ZZZZ Table 6. Subpart ZZZZ. [40 CFR 63.6640(a)]
- 65 [40 CFR 63.6640(f)(1)(ii)] Operate for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Limit maintenance checks and readiness testing to 100 hours per year. Subpart ZZZZ. [40 CFR 63.6640(f)(1)(ii)]
- 66 [40 CFR 63.6640(f)(1)(iii)] Operate up to 50 hours per year in non-emergency situations, but count those 50 hours towards the 100 hours per year provided for maintenance and testing. Do not use the 50 hours per year for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that the emergency engine may be operated for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. Do not operate for more than 30 minutes prior to the time when the emergency condition is expected to occur, and terminate the engine operation immediately after the facility is notified that the emergency condition is no longer imminent. Count the 15 hours per year of demand response operation as part of the 50 hours of operation per year provided for non-emergency situations. Subpart ZZZZ. [40 CFR 63.6640(f)(1)(iii)]
- 67 [40 CFR 63.6655] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.6655(a) through (f), as applicable. Subpart ZZZZ.

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20100001

Permit Number: 1560-00027-V0

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CRG 0001 GP - Generators and Pumps

68 [LAC 33:III.1101.B)

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

69 [LAC 33:III.1311.C)

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

CRG 0002 STKS - Storage Tanks

Group Members: EQT 0027EQT 0028EQT 0029EQT 0030EQT 0031EQT 0032EQT 0033EQT 0034EQT 0035EQT 0036EQT 0037EQT 0038EQT 0039EQT 0040EQT 0041EQT 0042EQT 0043EQT 0044EQT 0045EQT 0046

70 [40 CFR 60.112b(a)(2)(ii)]

Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]

71 [40 CFR 60.112b(a)(2)]

Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]

72 [40 CFR 60.113b(b)(3)]

Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]

73 [40 CFR 60.113b(b)(4)(i)(A)]

One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]

74 [40 CFR 60.113b(b)(4)(i)(B)]

There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]

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CRG 0002 STKS - Storage Tanks

- 75 [40 CFR 60.113b(b)(4)(i)] Seal gap width ≤ 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- 76 [40 CFR 60.113b(b)(4)(i)] Which Months: All Year Statistical Basis: None specified
Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- 77 [40 CFR 60.113b(b)(4)(ii)(A)] Which Months: All Year Statistical Basis: None specified
Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 78 [40 CFR 60.113b(b)(4)(ii)(B)] Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- 79 [40 CFR 60.113b(b)(4)(ii)(B)] Which Months: All Year Statistical Basis: None specified
Seal gap width ≤ 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- 80 [40 CFR 60.113b(b)(4)(ii)(C)] Which Months: All Year Statistical Basis: None specified
There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 81 [40 CFR 60.113b(b)(4)] Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 82 [40 CFR 60.113b(b)(5)] Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 83 [40 CFR 60.113b(b)(6)(i)] If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 84 [40 CFR 60.113b(b)(6)(ii)] Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 85 [40 CFR 60.113b(b)(6)] Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
- 86 [40 CFR 60.115b(b)(1)] Which Months: All Year Statistical Basis: None specified
Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]

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- 87 [40 CFR 60.115b(b)(2)] Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- 88 [40 CFR 60.115b(b)(3)] Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 89 [40 CFR 60.115b(b)(4)] Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 90 [40 CFR 60.116b(b)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 91 [40 CFR 60.116b(c)] VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
- 92 [40 CFR 60.116b(d)] Submit notification: Due within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range. Subpart Kb. [40 CFR 60.116b(d)]
- 93 [LAC 33:III.2103.B] Equip with a submerged fill pipe.
- 94 [LAC 33:III.2103.D.2.a] Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.
- 95 [LAC 33:III.2103.D.2.b] Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.
- 96 [LAC 33:III.2103.D.2.c] Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
- 97 [LAC 33:III.2103.D.2.d] Which Months: All Year Statistical Basis: None specified
Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
- 98 [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2.
- 99 [LAC 33:III.2103.D.2.e] Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
- 100 [LAC 33:III.2103.D.2.e] Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified

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101	[LAC 33:III.2103.D.2.e]	Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. Which Months: All Year Statistical Basis: None specified
102	[LAC 33:III.2103.D.2.e]	Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. Which Months: All Year Statistical Basis: None specified
103	[LAC 33:III.2103.D.3]	Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.
104	[LAC 33:III.2103.D.3]	Equip all covers, seals, lids, automatic bleeder vents and rim space vents with gaskets.
105	[LAC 33:III.2103.D]	Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
106	[LAC 33:III.2103.H.1]	Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1.
107	[LAC 33:III.2103.H.3]	Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
108	[LAC 33:III.2103.I]	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

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109	[40 CFR 60.]	All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
110	[40 CFR 63.6640(b)]	Report each instance in which each applicable emission limitation or operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d were not met according to the requirements of 40 CFR 63.6650. Subpart ZZZZ. [40 CFR 63.6640(b)]
111	[40 CFR 63.6640(e)]	Report each instance in which the applicable requirements in 40 CFR 63 Subpart ZZZZ Table 8 were not met. Subpart ZZZZ. [40 CFR 63.6640(e)]
112	[40 CFR 63.6650(f)]	Report all deviations as defined in 40 CFR 63 Subpart ZZZZ in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). Subpart ZZZZ. [40 CFR 63.6650(f)]
113	[40 CFR 63.6660(a)]	Keep records in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1). Subpart ZZZZ. [40 CFR 63.6660(a)]
114	[40 CFR 63.6660(b)]	Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, as specified in 40 CFR 63.10(b)(1). Subpart ZZZZ. [40 CFR 63.6660(b)]
115	[40 CFR 63.6660(c)]	Keep each record readily accessible in hard copy or electronic form on-site for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). Subpart ZZZZ. [40 CFR 63.6660(c)]
116	[40 CFR 63.]	All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.

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| 117 | [LAC 33:III.1103] | Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. |
| 118 | [LAC 33:III.1303.B] | Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. |
| 119 | [LAC 33:III.1305] | Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. |
| 120 | [LAC 33:III.2113.A] | Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. |
| 121 | [LAC 33:III.2119] | Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. |
| 122 | [LAC 33:III.2901.D] | Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. |
| 123 | [LAC 33:III.2901.F] | If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. |
| 124 | [LAC 33:III.535] | Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537] |
| 125 | [LAC 33:III.5611.A] | Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. |
| 126 | [LAC 33:III.5611.B] | During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. |
| 127 | [LAC 33:III.905] | Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. |
| 128 | [LAC 33:III.913] | Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits. |
| 129 | [LAC 33:III.917.A] | Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations. |
| | | No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety. |
| 130 | [LAC 33:III.917.B] | Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. |
| 131 | [LAC 33:III.919.D] | Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. |

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| 132 | [LAC 33:III.927] | Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:1.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:1.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. |
| 133 | [LAC 33:III.929.A] | No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded. |

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL SERVICES**

STATEMENT OF BASIS¹

PROPOSED PART 70 OPERATING PERMIT 1560-00027-V0

PORT COMPLEX

LOOP LLC

GALLIANO, LAFOURCHE PARISH, LOUISIANA

Agency Interest (AI) No. 4634

Activity No. PER20100001

I. APPLICANT

The applicant is: LOOP LLC
137 Northpark Dr.
Covington, LA 70433

Facility: Port Complex

SIC Code: 4612

Location: Four miles northeast of Galliano.

II. PERMITTING AUTHORITY

The permitting authority is: Louisiana Department of Environmental Quality
Office of Environmental Services
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313

III. CONTACT INFORMATION

Additional information may be obtained from:

Mr. Syed Quadri
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313
Phone: (225) 219-3181

IV. FACILITY BACKGROUND AND CURRENT PERMIT STATUS

LOOP LLC - Port Complex consists of pipeline terminal facilities existing in Galliano and Leeville located in Lafourche Parish. The LOOP LLC - Port Complex currently operates under Permit No. 1560-00027-03, issued June 12, 2007.

This will be the initial Part 70 permit for the Port Complex and addresses all emissions unit at the Port Complex.

¹ 40 CFR 70.7(a)(5) and LAC 33:III.531.A.4 require the permitting authority to "provide a statement that sets forth the legal and factual basis for the proposed permit conditions of any permit issued to a Part 70 source, including references to the applicable statutory or regulatory provisions."

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V. PROPOSED PERMIT/PROJECT INFORMATION

A permit application and Emission Inventory Questionnaire were submitted by LOOP LLC on December 23, 2010 requesting a Part 70 operating permit

Pursuant to LAC 33:III.519.A.4, a notice of the completeness determination was published in *The LaFourche Gazette*, LaFourche Parish, Louisiana, on January 12, 2011.

Additional information as of February 4, 2011 was also received.

Process Description

The LOOP LLC – Port Complex consists of the Clovelly Dome Storage Terminal in Galliano, the Small Boat Harbor in Leeville, the Fourchon Booster Station in Leeville, and the Marine Offloading Terminal in Grand Isle Block 59 of the Gulf of Mexico. The Clovelly Dome Storage Terminal consists of nine underground storage caverns. These caverns provide storage for crude oil prior to pipeline delivery. Eight of the caverns have a capacity of approximately 6 MM barrels of oil, and one cavern has a capacity of 3 MM barrels of oil. The terminal also consist of surface facilities located in the same general vicinity which include a Brine Storage Reservoir, Operations Building, crude oil storage tanks, fuel and slop oil tanks, a turbine generator, and ancillary equipment. The Small Boat Harbor, which is located on Bayou Lafourche, shelters crew and work boats and includes hose testing facilities. The Fourchon Booster Station is a secured unmanned facility with two large diesel storage tanks and a few small storage tanks. Emission control systems utilized at the LOOP Complex facilities include the latest storage tank technology, mechanical seals on pumps, and low sulfur fuel oil.

Proposed Modifications

LOOP LLC proposes to expand its Clovelly Dome Storage Terminal and bring the facility under Part 70 requirements as follows:

1. Add six (6) 600,000 bbl crude oil storage tanks (Emission Point Nos. 16-10 through 21-10);
2. Add one 520 hp Emergency Generator (Emission Point 1-10);
3. Include the new tanks and the landing losses in the existing cap (Emission Point TANK CAP);
4. Update fugitive emissions based on the modification;
5. Update the emissions based on a Reid Vapor Pressure (RVP) change from 5 to 8;
6. Update the emissions of the tanks based on the existing tank fittings;

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7. Remove from the inventory a Turbine Generator (Emission Point 7-78);
8. Remove from the inventory a Small Boat Harbor Fire Pump (Emission Point 16-78),
9. Update the nomenclature and emissions for the engines based on audit, AP-42 emission factors and source description; and
10. Update the insignificant activities based on the audit and modification.

VI. ATTAINMENT STATUS OF PARISH

<u>Pollutant</u>	<u>Attainment Status</u>	<u>Designation</u>
PM _{2.5}	Attainment	N/A
PM ₁₀	Attainment	N/A
SO ₂	Attainment	N/A
NO ₂	Attainment	N/A
CO	Attainment	N/A
Ozone ²	Attainment	N/A
Lead	Attainment	N/A

VII. PERMITTED AIR EMISSIONS

Sources of air emissions are listed on the "Inventories" page of the proposed permit. Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	1.05	2.34	+ 1.29
SO ₂	22.56	1.88	- 20.68
NO _x	45.56	51.23	+ 5.67
CO	1.76	10.01	+ 8.25
VOC **	93.82	182.59	+ 88.77

PM₁₀ and VOC compounds classified as LAC 33:III.Chapter 51-regulated toxic air pollutants (TAP) are speciated below. This list encompasses all Hazardous Air Pollutants (HAP) regulated pursuant to Section 112 of the Clean Air Act. Note, however, all TAPs are not HAPs (e.g., ammonia, hydrogen sulfide).

² VOC and NO_x are regulated as surrogates.

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**VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):			
Pollutant	Before	After	Change
Acetaldehyde	0.001	0.04	+ 0.04
Benzene	0.924	1.20	+ 0.28
Cumene	0.023	0.03	+ 0.01
Ethyl benzene	0.124	0.15	+ 0.03
Formaldehyde	0.001	0.06	+ 0.06
n-Hexane	0.948	1.12	+ 0.17
Toluene	0.590	0.66	+ 0.07
Xylenes	0.447	0.44	- 0.01
Total	3.06	3.70	+ 0.64
Other VOC		178.89	

Port Complex is a major source of criteria pollutants, a minor source of HAPs, and a minor source of TAPs. Port Complex is considered as a minor source under the provisions of LAC 33:III.Chapter 51 and an area source of HAPs under the federal requirements.

Permitted limits for individual emissions units and groups of emissions units, if applicable, are set forth in the tables of the proposed permit entitled "Emission Rates for Criteria Pollutants" and "Emission Rates for TAP/HAP & Other Pollutants." These tables are part of the permit.

Emissions calculations can be found in Appendix D of the permit application. The calculations address the manufacturer's specifications, fuel composition (e.g., sulfur content), emissions factors, and other assumptions on which the emissions limitations are based and have been reviewed by the permit writer for accuracy.

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General Condition XVII Activities

Very small emissions to the air resulting from routine operations that are predictable, expected, periodic, and quantifiable and that are submitted by the applicant and approved by the Air Permits Division are considered authorized discharges. These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. However, such emissions are considered when determining the facility's potential to emit for evaluation of applicable requirements. Approved General Condition XVII activities are noted in Section VIII of the proposed permit.

Insignificant Activities

The emissions units or activities listed in Section IX of the proposed permit have been classified as insignificant pursuant to LAC 33:III.501.B.5. By such listing, the LDEQ exempts these sources or types of sources from the requirement to obtain a permit under LAC 33:III.Chapter 5. However, such emissions are considered when determining the facility's potential to emit for evaluation of applicable requirements.

VIII. REGULATORY APPLICABILITY

Regulatory applicability is discussed in three sections of the proposed permit: Section X (Table 1), Section XI (Table 2), and Specific Requirements. Each is discussed in more detail below.

Section X (Table 1): Applicable Louisiana and Federal Air Quality Requirements

Section X (Table 1) summarizes all applicable federal and state regulations. In the matrix, a "1" represents a regulation applies to the emissions unit. A "1" is also used if the emissions unit is exempt from the emissions standards or control requirements of the regulation, but monitoring, recordkeeping, and/or reporting requirements apply.

A "2" is used to note that the regulation has requirements that would apply to the emissions unit, but the unit is exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified, or reconstructed since the regulation has been effective. If the specific criterion changes, the emissions unit will have to comply at a future date. Each "2" entry is explained in Section XI (Table 2).

A "3" signifies that the regulation applies to this general type of source (e.g., furnace, distillation column, boiler, fugitive emissions, etc.), but does not apply to the particular emissions unit. Each "3" entry is explained in Section XI (Table 2).

If blank, the regulation clearly does not apply to this type of emissions unit.

Section XI (Table 2): Explanation for Exemption Status or Non-Applicability of a Source

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Section XI (Table 2) of the proposed permit provides explanation for either the exemption status or non-applicability of given federal or state regulation cited by 2 or 3 in the matrix presented in Section X (Table 1).

Specific Requirements

Applicable regulations, as well as any additional monitoring, recordkeeping, and reporting requirements necessary to demonstrate compliance with both the federal and state terms and conditions of the proposed permit, are provided in the "Specific Requirements" section. Any operating limitations (e.g., on hours of operation or throughput) are also set forth in this section. Associated with each Specific Requirement is a citation of the federal or state regulation upon which the authority to include that Specific Requirement is based.

1. Federal Regulations

40 CFR 60 – New Source Performance Standards (NSPS)

The following subparts are applicable at the Port Complex: A, Ka, Kb and IIII. Applicable emission standards, monitoring, test methods and procedures, recordkeeping, and reporting requirements are summarized in the "Specific Requirements" section of the proposed permit.

40 CFR 61 – National Emission Standards for Hazardous Air Pollutants (NESHAP)

No NESHAP provisions are applicable to the Port Complex.

40 CFR 63 – Maximum Achievable Control Technology (MACT)

The following subparts are applicable at the Fort Complex: A, ZZZZ, and CCCCCC. Applicable emission standards, monitoring, test methods and procedures, recordkeeping, and reporting requirements are summarized in the "Specific Requirements" section of the proposed permit.

Clean Air Act §112(g) or §112(j) – Case-By-Case MACT Determinations

A case-by-case MACT determination pursuant to §112(g) or §112(j) of the Clean Air Act was not required.

40 CFR 64 – Compliance Assurance Monitoring (CAM)

Per 40 CFR 64.2(a), CAM applies to each pollutant-specific emissions unit (PSEU) that 1) is subject to an emission limitation or standard, 2) uses a control devices to achieve compliance, and 3) has potential pre-control device emissions that are equal to or greater than 100 percent of the amount, in TPY, required for a source to be classified as a major source.

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Port Complex is not subject to CAM requirements

Acid Rain Program

The Acid Rain Program, 40 CFR Part 72 – 78, applies to the fossil fuel-fired combustion devices listed in Tables 1-3 of 40 CFR 73.10 and other utility units, unless a unit is determined not to be an affected unit pursuant to 40 CFR 72.6(b). LDEQ has incorporated the Acid Rain Program by reference at LAC 33:III.505. Port Complex is not subject to the Acid Rain Program.

2. SIP-Approved State Regulations

Applicable state regulations are also noted in Section X (Table 1) of the proposed permit. Some state regulations have been approved by the U.S. Environmental Protection Agency (EPA) as part of Louisiana's State Implementation Plan (SIP). These regulations are referred to as "SIP-approved" and are enforceable by both LDEQ and EPA. All LAC 33:III.501.C.6 citations are federally enforceable unless otherwise noted.

3. State-Only Regulations

Individual chapters or sections of LAC 33:III noted by an asterisk in Section X (Table 1) are designated "state-only" pursuant to 40 CFR 70.6(b)(2). Terms and conditions of the proposed permit citing these chapters or sections are not SIP-approved and are not subject to the requirements of 40 CFR Part 70. These terms and conditions are enforceable by LDEQ, but not EPA. All conditions not designated as "state-only" are presumed to be federally enforceable.

IX. NEW SOURCE REVIEW (NSR)

1. Prevention of Significant Deterioration (PSD)

The facility's source category is listed in Table A of the definition of "major stationary source" in LAC 33:III.509. As such, the PSD major source threshold is 100 TPY (of any regulated NSR pollutant).

Port Complex is now a regulated facility under Prevention of Significant Deterioration (PSD) program; the facility is currently a minor source of criteria pollutants and the current changes do not constitute a major modification.

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X. ADDITIONAL MONITORING AND TESTING REQUIREMENTS

In addition to the monitoring and testing requirements set forth by applicable state and federal regulations (see Section VIII of this Statement of Basis), a number of "LAC 33:III.507.H.1.a" and/or "LAC 33:III.501.C.6" conditions may appear in the "Specific Requirements" section of the proposed permit. These conditions have been added where no applicable regulation exists or where an applicable regulation does not contain sufficient monitoring, recordkeeping, and/or reporting provisions to ensure compliance. LAC 33:III.507.H.1.a provisions, which may include recordkeeping requirements, are intended to fulfill Part 70 periodic monitoring obligations under 40 CFR 70.6(a)(3)(i)(B).

Port Complex requested an emission cap for operational flexibility. See Section XI.

XI. OPERATIONAL FLEXIBILITY

Emissions Caps

An emissions cap is a permitting mechanism to limit allowable emissions of two or more emissions units below their collective potential to emit (PTE). The proposed permit does have existing emissions caps.

Port Complex shall comply with the emission limits for the emission cap (Equipment Group) TANK CAP (GRP003) associated with the proposed permit.

Port Complex is required to monitor and keep records of the emissions for each equipment based on the relevant parameters every month and for the last twelve consecutive months to show compliance with the emission limits in the proposed permit. The specific conditions can be found in the "Specific Requirements" of the proposed permit.

Alternative Operating Scenarios

LAC 33:III.507.G.5 allows the owner or operator to operate under any operating scenario incorporated in the permit. Any reasonably anticipated alternative operating scenarios may be identified by the owner or operator through a permit application and included in the permit. The proposed permit does not include an alternative operating scenario.

Streamlined Requirements

When applicable requirements overlap or conflict, the permitting authority may choose to include in the permit the requirement that is determined to be most stringent or protective as detailed in EPA's "White Paper Number 2 for Improved Implementation of the Part 70 Operating Permits Program" (March 5, 1996). The overall objective is to determine the set of permit terms and conditions that will assure compliance with all applicable requirements for an emissions unit or group of emissions units so as to eliminate

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redundant or conflicting requirements. The proposed permit does not contain streamlined provisions.

Louisiana Consolidated Fugitive Emission Program (LCFEP)

Port Complex does not comply with a streamlined equipment leak monitoring program.

XII. PERMIT SHIELD

A permit shield, as described in 40 CFR 70.6(f) and LAC 33:III.507.I, provides an “enforcement shield” which protects the facility from enforcement action for violations of applicable federal requirements. It is intended to protect the facility from liability for violations if the permit does not accurately reflect an applicable federal or federally enforceable requirement.

The proposed permit does not establish a permit shield.

XIII. IMPACTS ON AMBIENT AIR

Emissions associated with the proposed modification were reviewed by the Air Permits Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

XIV. COMPLIANCE HISTORY AND CONSENT DECREES

The Port Complex’s compliance history can be found in Section 15.a of the permit application. It must be disclosed per LAC 33:III.517.E and 517.D.12, if applicable.

No federal or state actions have been issued since the existing permit for the Port Complex was issued and does not operate under a consent decree

XV. REQUIREMENTS THAT HAVE BEEN SATISFIED

The following state and/or federal obligations have been satisfied and are therefore not included as Specific Requirements.

<u>Source ID</u>	<u>Citation</u>	<u>Description</u>
NA		

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XVI. OTHER REQUIREMENTS

Executive Order No. BJ 2008-7 directs all state agencies to administer their regulatory practices, programs, contracts, grants, and all other functions vested in them in a manner consistent with Louisiana's Comprehensive Master Plan for a Sustainable Coast and public interest to the maximum extent possible. If a proposed facility or modification is located in the Coastal Zone, LDEQ requires the applicant to document whether or not a Coastal Use Permit is required, and if so, whether it has been obtained. Coastal Use Permits are issued by the Coastal Management Division of the Louisiana Department of Natural Resources (LDNR).

The facility is located in the Coastal Zone; however, a Coastal Use Permit is not required.

XVII. PUBLIC NOTICE/PUBLIC PARTICIPATION

Written comments, written requests for a public hearing, or written requests for notification of the final decision regarding this permit action may be submitted to:

LDEQ, Public Participation Group
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313

Written comments and/or written requests must be received prior to the deadline specified in the public notice. If LDEQ finds a significant degree of public interest, a public hearing will be held. All comments will be considered prior to a final permit decision.

LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed permit, and this Statement of Basis are available for review at LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, Louisiana. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). Additional copies may be viewed at the local library identified in the public notice. The available information can also be accessed electronically via LDEQ's Electronic Document Management System (EDMS) on LDEQ's public website, www.deq.louisiana.gov.

Inquiries or requests for additional information regarding this permit action should be directed to the contact identified on page 1 of this Statement of Basis.

Persons wishing to be included on the public notice mailing list or for other public participation-related questions should contact LDEQ's Public Participation Group at P.O. Box 4313, Baton Rouge, LA 70821-4313; by e-mail at maillistrequest@ldeq.org; or contact LDEQ's Customer Service Center at (225) 219-LDEQ (219-5337). Alternatively, individuals may elect to receive public notices via e-mail by subscribing to LDEQ's

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Public Notification List Service at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

Permit public notices can be viewed at LDEQ's "Public Notices" webpage, <http://www.deq.louisiana.gov/apps/pubNotice/default.asp>. Electronic access to each proposed permit and Statement of Basis current on notice is also available on this page. General information related to public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

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APPENDIX A - ACRONYMS

AAS	Ambient Air Standard (LAC 33:III.Chapter 51)
AP-42	EPA document number of the Compilation of Air Pollutant Emission Factors
BACT	Best Available Control Technology
BTU	British Thermal Units
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CAM	Compliance Assurance Monitoring, 40 CFR 64
CEMS	Continuous Emission Monitoring System
CMS	Continuous Monitoring System
CO	Carbon monoxide
COMS	Continuous Opacity Monitoring System
CFR	Code of Federal Regulations
EI	Emissions Inventory (LAC 33:III.919)
EPA	(United States) Environmental Protection Agency
EIQ	Emission Inventory Questionnaire
ERC	Emission Reduction Credit
FR	Federal Register or Fixed Roof
H ₂ S	Hydrogen sulfide
H ₂ SO ₄	Sulfuric acid
HAP	Hazardous Air Pollutants
Hg	Mercury
HON	Hazardous Organic NESHAP
IBR	Incorporation by Reference
LAER	Lowest Achievable Emission Rate
LDEQ	Louisiana Department of Environmental Quality
M	Thousand
MM	Million
MACT	Maximum Achievable Control Technology
MEK	Methyl ethyl ketone
MIK	Methyl isobutyl ketone
MSDS	Material Safety Data Sheet
MTBE	Methyl tert-butyl ether
NAAQS	National Ambient Air Quality Standards
NAICS	North American Industrial Classification System (replacement to SIC)
NESHAP	National Emission Standards for Hazardous Air Pollutants
NMOC	Non-Methane Organic Compounds

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NO _x	Nitrogen Oxides
NNSR	Nonattainment New Source Review
NSPS	New Source Performance Standards
NSR	New Source Review
OEA	LDEQ Office of Environmental Assessment
OEC	LDEQ Office of Environmental Compliance
OES	LDEQ Office of Environmental Services
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 microns in nominal diameter
PM _{2.5}	Particulate Matter less than 2.5 microns in nominal diameter
ppm	parts per million
ppmv	parts per million by volume
ppmw	parts per million by weight
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
RBLC	RACT-BACT-LAER Clearinghouse
RMP	Risk Management Plan (40 CFR 68)
SICC	Standard Industrial Classification Code
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
SOCMI	Synthetic Organic Chemical Manufacturing Industry
TAP	Toxic Air Pollutants (LAC 33:III.Chapter 51)
TOC	Total Organic Compounds
TPY	Tons Per Year
TRS	Total Reduced Sulfur
TSP	Total Suspended Particulate
µg/m ³	Micrograms per Cubic Meter
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compound
VOL	Volatile Organic Liquid
VRU	Vapor Recovery Unit

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APPENDIX B – GLOSSARY

Best Available Control Technologies (BACT) – an emissions limitation (including a visible emission standard) based on the maximum degree of reduction for each pollutant subject to regulation under this Part (Part III) which would be emitted from any proposed major stationary source or major modification which the administrative authority, on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such source or modification through application of production processes or available methods, systems, and techniques, including fuel cleaning or treatment or innovative fuel combustion techniques for control of such pollutant.

CAM - Compliance Assurance Monitoring – A federal air regulation under 40 CFR Part 64.

Carbon Monoxide (CO) – (Carbon monoxide) a colorless, odorless gas produced by incomplete combustion of any carbonaceous (gasoline, natural gas, coal, oil, etc.) material.

Cooling Tower – A cooling system used in industry to cool hot water (by partial evaporation) before reusing it as a coolant.

Continuous Emission Monitoring System (CEMS) – The total combined equipment and systems required to continuously determine air contaminants and diluent gas concentrations and/or mass emission rate of a source effluent.

Cyclone – A control device that uses centrifugal force to separate particulate matter from the carrier gas stream.

Federally Enforceable Specific Condition – A federally enforceable specific condition written to limit the potential to Emit (PTE) of a source that is permanent, quantifiable, and practically enforceable. In order to meet these requirements, the draft permit containing the federally enforceable specific condition must be placed on public notice and include the following conditions:

- A clear statement of the operational limitation or condition which limits the source's potential to emit;
- Recordkeeping requirements related to the operational limitation or condition;
- A requirement that these records be made available for inspection by LDEQ personnel;
- A requirement to report for the previous calendar year.

Grandfathered Status – those facilities that were under actual construction or operation as of June 19, 1969, the signature date of the original Clean Air Act. These facilities are not required to obtain a permit. Facilities that are subject to Part 70 (Title V) requirements lose grandfathered status and must apply for a permit.

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APPENDIX B – GLOSSARY

Lowest Achievable Emission Rate (LAER) – for any source, the more stringent rate of emissions based on the following:

- a. the most stringent emissions limitation that is contained in the implementation plan of any state for such class or category of major stationary source, unless the owner or operator of the proposed stationary source demonstrates that such limitations are not achievable; or
- b. the most stringent emissions limitation that is achieved in practice by such class or category of stationary source. This limitation, when applied to a modification, means the lowest achievable emissions rate for the new or modified emissions units within the stationary source. In no event shall the application of this term permit a proposed new or modified major stationary source to emit any pollutant in excess of the amount allowable under an applicable new source standard of performance.

NESHAP – National Emission Standards for Hazardous Air Pollutants – Air emission standards for specific types of facilities, as outlined in 40 CFR Parts 61 through 63.

Maximum Achievable Control Technology (MACT) – the maximum degree of reduction in emissions of each air pollutant subject to LAC 33:III.Chapter 51 (including a prohibition on such emissions, where achievable) that the administrative authority, upon review of submitted MACT compliance plans and other relevant information and taking into consideration the cost of achieving such emission reduction, as well as any non-air-quality health and environmental impacts and energy requirements, determines is achievable through application of measures, processes, methods, systems, or techniques.

NSPS – New Source Performance Standards – Air emission standards for specific types of facilities, as outlined in 40 CFR Part 60.

New Source Review (NSR) – a preconstruction review and permitting program applicable to new or modified major stationary sources of criteria air pollutants regulated under the Clean Air Act (CAA). NSR is required by Parts C (“Prevention of Significant Deterioration of Air Quality”) and D (“Nonattainment New Source Review”).

Nonattainment New Source Review (NNSR) – a New Source Review permitting program for major sources in geographic areas that do not meet the National Ambient Air Quality Standards (NAAQS) set forth at 40 CFR Part 50. NNSR is designed to ensure that emissions associated with new or modified sources will be regulated with the goal of improving ambient air quality.

Organic Compound – any compound of carbon and another element. Examples: methane (CH₄), ethane (C₂H₆), carbon disulfide (CS₂).

Part 70 Operating Permit – also referred to as a Title V permit, required for major sources as defined in 40 CFR 70 and LAC 33:III.507.

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PM₁₀ – particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers as measured by the method in Title 40, Code of Federal Regulations, Part 50, Appendix J.

Potential to Emit (PTE) – the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design.

Prevention of Significant Deterioration (PSD) – a New Source Review permitting program for major sources in geographic areas that meet the National Ambient Air Quality Standards (NAAQS) at 40 CFR Part 50. PSD requirements are designed to ensure that the air quality in attainment areas will not degrade.

Selective Catalytic Reduction (SCR) – A non-combustion control technology that destroys NO_x by injecting a reducing agent (e.g., ammonia) into the flue gas that, in the presence of a catalyst (e.g., vanadium, titanium, or zeolite), converts NO_x into molecular nitrogen and water.

Sulfur Dioxide (SO₂) – An oxide of sulphur.

TAP – LDEQ acronym for toxic air pollutants regulated under LAC 33 Part III, Chapter 51, Tables 1 through 3.

“Top Down” Approach – An approach which requires use of the most stringent control technology found to be technically feasible and appropriate based on environmental, energy, economic, and cost impacts.

Title V permit – see Part 70 Operating Permit.

Volatile Organic Compound (VOC) – any organic compound which participates in atmospheric photochemical reactions; that is, any organic compound other than those which the Administrator of the U.S. Environmental Protection Agency designates as having negligible photochemical reactivity.

Worksheet for Technical Review of Working Draft of Proposed Permit

Company Name:	LOOP LLC	AI #:	4634	Permit No: TEMPO Activity No:	1560-00027-V0 PER20100001
Facility Name:	Port Complex	Remarks Submitted by:	Tracy Fazio, C-K Associates, LLC		
Permit Writer:	Syed Quadri	Permit Writer Email address:	Syed.quadri@la.gov		

Instructions

Permit Reference – Indicate specific portion(s) of the permit to which the remark relates (i.e. “Specific Condition 120”, or “Section II Air Permits Briefing Sheet”, etc.).

Remarks – Explain the basis for each remark. Provide regulatory citations where possible. If the remark is made due to an error or omission in the permit application this must be noted and the revised information *must be submitted*. Revised information may be submitted separately from this worksheet. Please be aware that revised information must be submitted in writing and certified by the Responsible Official, and if necessary, by a Professional Engineer licensed in Louisiana. *Please Note:* New or additional equipment, processes or operating conditions not addressed in the original permit application will be addressed on a case-by-case basis. The Department reserves the right to address such changes in a separate permit action.

DEQ Response – DO NOT COMPLETE THIS SECTION. This section will be completed by Air Permits Division of DEQ, included in the proposed permit package and made available for public review during any required public comment period.

- Additional rows may be added as necessary.
- Completed Form shall be emailed to the Permit writer in MS Word compatible format within the deadline specified in the email notification.

[illegible]

Syed Quadri

From: Tracy Fazio [tracy.fazio@c-ka.com]
Sent: Wednesday, January 26, 2011 10:53 AM
To: Syed Quadri
Subject: ZZZZ - LOOP existing CI emergency engines
Attachments: <http://frwebgate2.access.gpo.gov/cgi-bin/PDFgate.pdf>

Syed –

Attached is the final rule, with preamble, for ZZZZ revisions that pull in existing CI engines at Area Sources. On page 9654, first column, #2, 1st paragraph, the summary of rule states that existing RICE subject to management practices do not have to conduct performance tests.

Additionally, page 9652, 3rd column, #2 provides that numerical standards are applied to non-emergency engines.

Hopefully this gives you the level of comfort you need to be OK with the requirements you wrote in the draft permit. I initially highlighted text in the attached and tried to scan it in color to send to you for easy review, but the file is too large for me email so I had to just explain where to see the language.

Tracy

Tracy Fazio, PE
Air Quality Team
C-K Associates, LLC
Baton Rouge, LA
Phone: 225.755.1011 ext 1804
Fax: 225.612.3103
www.c-ka.com

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PEGGY M. HATCH
SECRETARY

State of Louisiana

DEC 30 2010

DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL SERVICES

CERTIFIED MAIL 7007 0710 0005 4137 2101

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Ms. CaSandra J. Cooper-Gates
LOOP LLC
137 Northpark Dr.
Covington, LA 70433-5071

**RE: Port Complex Application
Administrative Completeness Determination and Public Notice for Publication**

Dear Ms. Cooper-Gates:

The Office of Environmental Services received your application for an initial Title V air permit on December 23, 2010. As of the date of this letter, the application, along with any additional information submitted to date, has been determined to be administratively complete and has been assigned to the Petrochemical Section, Group 3. Please note that the Department may require additional information if technical deficiencies are found at a later date.

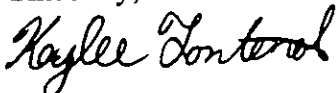
Pursuant to LAC 33: I.1505.A.5, within 30 days after receipt of this letter of administrative completeness, the applicant shall publish a notice, provided by the Department, of the completeness determination in a major local newspaper of general circulation and submit proof of publication to the Department. Please publish the enclosed public notice once in *The Lafourche Gazette*. The proof of publication should be mailed to Kaylee Fontenot at this Office.

In addition, Section 2018 of the Environmental Quality Act requires certain permit applications to contain an environmental assessment statement (I.T. questions). "Simultaneously with the submission of the statement to the department, the applicant must also submit copies of the statement to the local governmental authority and designated public library where the facility is located, at no cost to the local governmental authority or the designated public library."

Within 30 days from the date of this letter, please provide confirmation for our records to indicate that this required task has been accomplished for the application you submitted on December 23, 2010. Included in the confirmation must be the date the statement was mailed or delivered, the name of the entity to which the statement was mailed or delivered, and affirmation that the statement that was mailed or delivered is the same as the statement that was submitted to the department as part of the permit application.

If you have any questions, please call me at (225) 219-3285.

Sincerely,

A handwritten signature in black ink that reads "Kaylee Fontenot". The signature is written in a cursive, flowing style.

Kaylee Fontenot
Environmental Project Specialist
Permit Application Administrative Review Group

Enclosure

c: IO-A

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
LOOP LLC Port Complex
ADMINISTRATIVE COMPLETENESS DETERMINATION

The LDEQ, Office of Environmental Services, has reviewed an initial Title V air permit application from LOOP LLC, 137 Northpark Dr., Covington, LA 70433-5071 for the Port Complex and determined that it is administratively complete. The application was received on December 23, 2010. **The facility is located near Galliano, Lafourche Parish.**

LOOP LLC - Port Complex proposes to obtain a Title V air permit.

Inquiries or requests for additional information regarding the administrative completeness review of this application should be directed to Kaylee Fontenot, LDEQ, Environmental Assistance Division, P. O. Box 4313, Baton Rouge, LA 70821-4313 or at 225-219-3285.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmailistrequest@ldeq.org or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices can be viewed at the LDEQ permits public notice webpage at <http://www.deq.louisiana.gov/apps/pubNotice/default.asp> and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 4634, Permit Number 1560-00027-V0, and Activity Number PER20100001.

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137 Northpark Blvd. • Covington, LA 70433
TELEPHONE (985) 276-6100 • FAX (985) 276-6284

January 27, 2011

Sign

VIA FEDEX

Ms. Kaylee Fontenot
Environmental Project Specialist
Louisiana Department of Environmental Quality
Permit Application Administrative Review Group
Post Office Box 4313
Baton Rouge, LA 70821-4313

Re: LOOP LLC
Agency Interest No. 4634
Permit No. 1560-00027-V0
Activity No. PER20100001

2011 JAN 31 AM 7:14
DEQ-DES

Dear Ms. Fontenot:

Attached are copies of the letters sent to the Lafourche Parish Council and the Lafourche Parish Public Library transmitting the Environmental Assessment Statement as required in your letter dated December 30, 2010. Also attached are copies of the FEDEX waybills transmitting these documents.

As indicated in the Environmental Assessment Statement, the information in that document was included in LOOP LLC's application for initial Title V air permit submitted to the Louisiana Department of Environmental Quality on December 23, 2010.

If you have any questions or need any further information please do not hesitate to contact me at (985) 276-6299 or via email at cgleblanc@loopllc.com.

Sincerely,

Cynthia A. Gardner-LeBlanc

Cynthia A. Gardner-LeBlanc
Senior Regulatory Representative

Enclosures



137 Northpark Blvd. • Covington, LA 70433
TELEPHONE (985) 276-6100 • FAX (985) 276-6284

January 27, 2011

VIA FEDEX

Ms. Charlotte Randolph
Parish President
Lafourche Parish Council
402 Green Street
Thibodaux, LA 70301

Re: LOOP LLC Environmental Assessment Statement

Dear Ms. Randolph:

LOOP LLC is submitting the enclosed Environmental Assessment Statement to the Lafourche Parish Council as required by the Louisiana Department of Environmental Quality. The submittal is in conjunction with a permit request to the Louisiana Department of Environmental Quality for an initial Title V air permit and in accordance with requirements found at La. R.S. 30:2018. A copy of this statement has also been forwarded to the Lafourche Parish Public Library.

Should you have any questions, please contact me at (985) 276-6299.

Sincerely,

A handwritten signature in cursive script, reading "Cynthia A. Gardner-LeBlanc".

Cynthia A. Gardner-LeBlanc
Senior Regulatory Representative

Enclosure

cc: Kaylee Fontenot, Louisiana Department of Environmental Quality

Environmental Assessment Statement

In accordance with La. R.S. 30:2018, the following Environmental Assessment Statement has been prepared and is being submitted to the local governmental authority (the Lafourche Parish Council) and the local public library. This information was also provided to the Louisiana Department of Environmental Quality in LOOP's application for an initial Title V air permit submitted to the agency on December 23, 2010.

- 1. Have the potential and real adverse environmental effects of the proposed facility been avoided to the maximum extent possible?**

Yes. The LOOP LLC Port Complex currently operates under Permit No. 1560-00027-03 and is requesting permitting under a Louisiana Part 70 Operating Permit with this application. This application includes the addition of six crude oil storage tanks, to be permitted under the existing crude oil storage tank CAP, and the addition of one emergency diesel generator.

The potential and real adverse environmental effects of the proposed project have been avoided to the maximum extent possible. As discussed below, the facility is not anticipated to have any adverse environmental impacts.

The potential impacts from air emissions from the facility are minimal and will not cause any adverse impacts. All applicable federal and state regulations are complied within a timely manner and are utilized to minimize air emissions.

- 2. Does a cost benefit analysis of the environmental impact costs balanced against the social and economic benefits of the proposed facility demonstrate that the latter outweighs the former?**

Yes. The social and economic benefits of the LOOP Complex greatly outweigh its environmental impact. The facility is subject to strict requirements to control air emissions. Controls are in place to prevent any other environmental media from being affected by the facility's operations. The LOOP Complex is not anticipated to have an adverse impact on the environment. The facility has significant social and economic benefits, on a local and national scale, with minimal environmental impact.

- 3. Are there alternative projects which would offer more protection to the environment than the proposed facility without unduly curtailing non-environmental benefits?**

The proposed project is planned for the existing LOOP Complex. There are no alternative projects (i.e., technologies) which would offer more protection to the environment than the proposed project without unduly curtailing non-environmental benefits.

- 4. Are there alternative sites which would offer more protection to the environment than the proposed facility site without unduly curtailing non-environmental benefits?**

No, it is an existing facility which is zoned for industrial use. Any other site would not offer more protection to the environment than the proposed project site without unduly curtailing non-environmental benefits.

- 5. Are there mitigating measures which would offer more protection to the environment than the facility as proposed without unduly curtailing non-environmental benefits?**

No, there are no mitigating measures which would offer more protection to the environment than the project as proposed without unduly curtailing non-environmental benefits. The facility meets all state and federally applicable requirements to minimize emissions of regulated air pollutants. Emissions associated with operations at the facility have been minimized.

From: (985) 276-6299
Cynthia Gardner-LeBlanc
LOOP LLC
137 Northpark Blvd.
Covington, LA 70433

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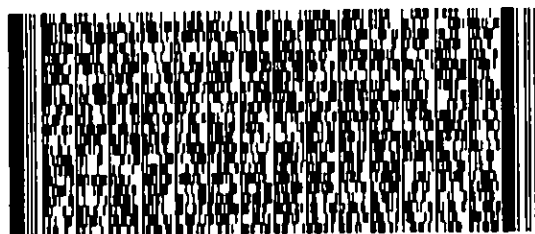
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Ms. Charlotte Randolph
Parish President
402 GREEN ST
LAFORCHE PARISH COUNCIL
THIBODAUX, LA 70301

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137 Northpark Blvd. • Covington, LA 70433
TELEPHONE (985) 276-6100 • FAX (985) 276-6284

January 27, 2011

VIA FEDEX

Ms. Susanna LeBouef
Director
Lafourche Parish Public Library
South Lafourche Branch
16241 East Main
Cut Off, LA 70345-3805

Re: LOOP LLC Environmental Assessment Statement

Dear Ms. LeBouef:

In accordance with my conversation with Ms. Tammy Blanchard, attached is a copy of the Environmental Assessment Statement LOOP LLC is required by the Louisiana Department of Environmental Quality to submit to the Lafourche Parish Public Library. The submittal is in conjunction with a permit request to the Louisiana Department of Environmental Quality for an initial Title V air permit and in accordance with requirements found at La. R.S. 30:2018. A copy of this statement has also been forwarded to the Lafourche Parish Council.

Should you have any questions, please contact me at (985) 276-6299.

Sincerely,

A handwritten signature in black ink, reading "Cynthia A. Gardner-LeBlanc".

Cynthia A. Gardner-LeBlanc
Senior Regulatory Representative

Enclosure

cc: Kaylee Fontenot, Louisiana Department of Environmental Quality

Environmental Assessment Statement

In accordance with La. R.S. 30:2018, the following Environmental Assessment Statement has been prepared and is being submitted to the local governmental authority (the Lafourche Parish Council) and the local public library. This information was also provided to the Louisiana Department of Environmental Quality in LOOP's application for an initial Title V air permit submitted to the agency on December 23, 2010.

1. **Have the potential and real adverse environmental effects of the proposed facility been avoided to the maximum extent possible?**

Yes. The LOOP LLC Port Complex currently operates under Permit No. 1560-00027-03 and is requesting permitting under a Louisiana Part 70 Operating Permit with this application. This application includes the addition of six crude oil storage tanks, to be permitted under the existing crude oil storage tank CAP, and the addition of one emergency diesel generator.

The potential and real adverse environmental effects of the proposed project have been avoided to the maximum extent possible. As discussed below, the facility is not anticipated to have any adverse environmental impacts.

The potential impacts from air emissions from the facility are minimal and will not cause any adverse impacts. All applicable federal and state regulations are complied within a timely manner and are utilized to minimize air emissions.

2. **Does a cost benefit analysis of the environmental impact costs balanced against the social and economic benefits of the proposed facility demonstrate that the latter outweighs the former?**

Yes. The social and economic benefits of the LOOP Complex greatly outweigh its environmental impact. The facility is subject to strict requirements to control air emissions. Controls are in place to prevent any other environmental media from being affected by the facility's operations. The LOOP Complex is not anticipated to have an adverse impact on the environment. The facility has significant social and economic benefits, on a local and national scale, with minimal environmental impact.

3. **Are there alternative projects which would offer more protection to the environment than the proposed facility without unduly curtailing non-environmental benefits?**

The proposed project is planned for the existing LOOP Complex. There are no alternative projects (i.e., technologies) which would offer more protection to the environment than the proposed project without unduly curtailing non-environmental benefits.

4. **Are there alternative sites which would offer more protection to the environment than the proposed facility site without unduly curtailing non-environmental benefits?**

No, it is an existing facility which is zoned for industrial use. Any other site would not offer more protection to the environment than the proposed project site without unduly curtailing non-environmental benefits.

5. **Are there mitigating measures which would offer more protection to the environment than the facility as proposed without unduly curtailing non-environmental benefits?**

No, there are no mitigating measures which would offer more protection to the environment than the project as proposed without unduly curtailing non-environmental benefits. The facility meets all state and federally applicable requirements to minimize emissions of regulated air pollutants. Emissions associated with operations at the facility have been minimized.

From: (985) 276-6299
Cynthia Gardner-LeBlanc
LOOP LLC
137 Northpark Blvd.

Origin ID: BXAA



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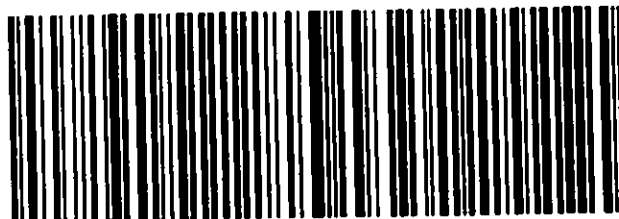
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Syed Quadri

From: Jennifer Tullier [Jennifer.Tullier@c-ka.com]
Sent: Friday, January 07, 2011 3:26 PM
To: Syed Quadri
Cc: Tracy Fazio
Subject: RE: AI # 4634: Air Permit Application (40 CFR 63 ZZZZ)

Syed,

The following citations are regarding applicability of Subpart ZZZZ, related to existing engines (EQT009 through EQT015 and EQT018 through EQT026). While we understand that these citations apply and they were used to determine the Subpart is applicable, we did not include them in Table 2 since they did not fit into the Emissions/Operating Limitations, Monitoring Requirements, Recordkeeping Requirements, Reporting Requirements, or Performance Testing Requirements.

6580

6585(c)

6590(a)(1)(iii) – before June 12, 2006

6595(a)(1) – by October 19, 2013

Citation 6603 with regard to Table 2b: Table 2b does not apply as the facility is not a major source of HAP emissions.

Citation 6603 with regard to Table 2d: Table 2d, Item No. 4 (Emergency CI) does apply to the existing emergency engines.

Citation 6605(a) and (b): okay to include

Citation 6612(a) and (b): Table 4 and Table 5 do not apply as there are no numerical limits established for existing emergency generators at area source HAP emissions.

Citation 6625(e)(2) and (f): okay to include 6625(e) and 6625(f).

Citation 6630 regarding 6630(a) with regard to Table 5: Table 5 of this subpart does not identify emission or operating limits applicable to existing emergency generators at an area source of HAP emissions. 6630(b) with regard to Table 1b and Table 2b does not identify initial performance test as these table are applicable to major sources of HAP emissions. 6630(c) does not apply as it details "Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements of 63.6645." The existing emergency engines are not applicable to 63.6645 based on the citation in 6645(a)(5).

Citation 6635: The context of this section applies to monitoring systems. Existing CI engines at area sources are not required to install monitoring equipment.

Citation 6640(f) is already cited in the Permit Application, Table 2 as applicable (page 4 of 16).

Citation 6645: This citation does not apply based on 6645(a)(5): "This requirement does not apply if you own or operate an existing stationary CI RICE less than 100 HP, and existing stationary emergency CI RICE, or an existing stationary CI RICE that is not subject to any numerical emission standards.

Citation 6650: Okay to add 40 CFR 63.6650(a)-(d) and (f)

Citation 6655(e) is already cited in the Permit Application, Table 2 as applicable (page 5 of 16)

Citation 6660 is already cited in the Permit Application, Table 2 as applicable (page 5 of 16)

Citation 6665: Okay to add

Please let us know if there are any other questions.

Jennifer Tullier

C-K Associates, LLC
17170 Perkins Road
Baton Rouge, LA 70810
jennifer.tullier@c-ka.com

Main: 225.755.1000
Fax: 225.751.2010

From: Syed Quadri [<mailto:Syed.Quadri@LA.GOV>]
Sent: Friday, January 07, 2011 10:10 AM
To: Jennifer Tullier
Cc: Tracy Fazio
Subject: RE: AI # 4634: Air Permit Application (40 CFR 63 ZZZZ)

Jennifer: Here is my list of all the citations potentially applicable to the engines. If any citation does not apply give me a reason why not.

6580
6585(c)
6590(a)(1)(iii) – before June 12, 2006
6595(a)(1) – by October 19, 2013
6603 – table 2d and 2b (need item numbers)
6605(a) and (b)
6612(a) and (b) – no testing if already done as per the requirement protocol
6625(e)(2) and (f)
6630
6635
6640(f)
6645
6650
6655(e)
6660 and
6665

Thanx,

Syed

From: Jennifer Tullier [<mailto:Jennifer.Tullier@c-ka.com>]
Sent: Thursday, January 06, 2011 4:20 PM
To: Syed Quadri
Cc: Tracy Fazio
Subject: AI # 4634: Air Permit Application (40 CFR 63 ZZZZ)

Syed,
Existing emergency engines located at the LOOP, LLC – Port Complex (an area source of HAP emissions) are subject to the following 40 CFR 63 Subpart ZZZZ requirements: 40 CFR 63.6640(f) [Operating Limitations], 40 CFR 63.6655(f)(2) [Monitoring and Recordkeeping requirements], 40 CFR 63.6655(e) [Recordkeeping], and 40 CFR 63.6660 [Recordkeeping]. Existing (emergency) internal combustion engines include EQT009 through EQT015 and EQT018 through EQT026. The proposed new emergency generator (Emission Point 1-10) complies with 40 CFR 63 Subpart ZZZZ (40 CFR 63.6590(c)) by complying with 40 CFR 60 IIII. The requirements of 40 CFR 63 Subpart ZZZZ for all engines, existing and proposed, are detailed in Table 2 of the permit application.

If there are any additional questions please let Tracy or myself know.

Thanks.

Jennifer Tullier

C-K Associates, LLC
17170 Perkins Road
Baton Rouge, LA 70810
jennifer.tullier@c-ka.com
Main: 225.755.1000
Fax: 225.751.2010

COPY

LDEQ RECEIPT

17170 PERKINS ROAD
BATON ROUGE, LA 70810
PH (225) 755-1000
FAX (225) 751-2010
<http://www.c-ko.com>

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REGIONAL OFFICES

HOUSTON, TX
PH (281) 397-9016
FAX (281) 397-6637

SHREVEPORT, LA
PH (318) 797-8636
FAX (318) 798-0478

LAKE CHARLES, LA
PH (337) 439-8699
FAX (337) 439-3337

December 23, 2010

HAND DELIVERED

Louisiana Department of Environmental Quality
Office of Environmental Services
Permits Division
602 N. Fifth St.
Baton Rouge, Louisiana 70802

original to JO-A
copy to Petro/G3/Davis
PAAR

Re: Title V Air Permit Application
Permit No. 1560-00027-03
LOOP LLC – LOOP LLC Port Complex
Lafourche Parish, Louisiana
Agency Interest No. 4634

PER 2010 0001

Dear Permits Division:

On behalf of LOOP LLC, C-K Associates, LLC submits, in triplicate, the Title V air permit application for Permit No. 1560-00027-03.

If you have any questions or require additional information, please contact me at (225)-755-1000.

Sincerely,
C-K Associates, LLC


Mark J. Ezell
Air Quality Manager

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Thursday, December 23, 2010

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RECEIPT OF CHECK

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Master File Name: LOOP LLC - Port Complex
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Check Date: 12/17/2010
Check Number: 595707
Check Amount (\$): \$6,286.25
Staff Entry: DFERRAND
Date data entered: 12/23/2010
Media: AIR
Reason: title V permit app
Comments:

**LOUISIANA DEPARTMENT OF
ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL SERVICES**

**TITLE V/PART 70
AIR PERMIT APPLICATION**

FOR

**LOOP LLC Port Complex
LOOP LLC
Galliano/Leeville, Louisiana
Lafourche Parish**

December 2010

**Prepared By:
C-K Associates, LLC
17170 Perkins Road
Baton Rouge, LA 70810
(225) 755-1000**

C-K Associates' Project No. 5510A

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- 2 Plot Plan

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- B Part 70 Operating Permit Application Completeness Checklist
- C Environmental Assessment Statement
- D Emission Calculations
- E EPA Submittal Letter
- F Certificate of Good Standing

SECTION 1.0
INTRODUCTION

1.0 INTRODUCTION

This Application for Approval of Emissions (AAE) and Emissions Inventory Questionnaire (EIQ) are being submitted by LOOP LLC (LOOP) for modification of the existing Clovelly Dome Storage Terminal in Lafourche Parish, Louisiana. The facility is under the LOOP LLC Port Complex, which includes a Marine Offloading Terminal, a crude oil pipeline interim storage facility.

The LOOP LLC Port Complex is a minor source of Criteria and LAC 33:III Chapter 51 Toxic Air Pollutants. The facility currently operates under State Permit No. 1560-00027-03 issued June 12, 2007. A copy of the current permit can be found in Appendix A. With this modification application, LOOP is requesting a Title V permit for the LOOP LLC Port Complex.

This application was prepared in accordance with LAC 33:III Chapter 5. The application Completeness Checklist for Part 70 Operating Permits is included as Appendix B. As required under LA R.S. 30:2018, the Environmental Assessment Statement is included as Appendix C.

1.1 FACILITY DESCRIPTION

LOOP LLC Port Complex (LOOP Complex) is located in Lafourche Parish, Louisiana and the Gulf of Mexico. The LOOP Complex consists of the Clovelly Dome Storage Terminal in Galliano, the Small Boat Harbor in Leeville, the Fourchon Booster Station in Leeville, and Marine Offloading Terminal in Grand Isle Block 59, Gulf of Mexico. Figure 1 depicts the site locations of the three land based facilities relative to each other.

The LOOP Complex is currently permitted for a capacity of 59.4 million barrels (MMbbls) of crude oil storage, including caverns and tanks. The Clovelly Dome Storage Terminal consists of nine underground storage caverns. These caverns provide storage for oil prior to pipeline delivery. Eight of the caverns have a capacity of approximately 6 MM barrels of oil, and one cavern has a capacity of 3 MM barrels of oil. The Terminal also consists of surface facilities located in the same general vicinity which include a Brine Storage Reservoir, Operations Building, crude oil storage tanks, fuel and slop oil tanks, emergency generators, and ancillary equipment. The Small Boat Harbor, located on Bayou Lafourche, shelters crew and work boats and includes hose testing facilities. The Fourchon Booster Station is a secured unmanned facility with two large diesel storage tanks and a few small storage tanks. Emission control systems utilized at the LOOP Complex facilities include the latest storage tank technology, mechanical seals on pumps, and low sulfur fuel oil.

1.2 PROJECT DESCRIPTION

LOOP proposes to expand its Clovelly Dome Storage Terminal to include six (6) additional storage tanks and one new emergency diesel generator. The new tanks will be modeled after the existing tanks, each being an external floating roof tank and having a diameter of 310 feet. Refer to Figure 2 Plot Plan for the location of new tanks. The capacity of each of the new tanks will be 600,000 barrels. Additional capacity is 3.6 MMbbls for a total of 63 MMbbls.

Currently, the permitted throughput for the existing crude oil tank cap is 230 MMbbl/year. The emissions cap consists of both operating emissions and roof landing emissions. This cap allows LOOP to operate the storage tanks with the flexibility to increase throughput through any one tank to meet scheduling and production needs. The cap also allows for

roof landings to occur when necessary. This application presents a theoretical operating scenario of one roof landing per tank per year. Should one tank need to be landed more than once in a year or not at all, the throughput for any tank can be adjusted, accordingly.

LOOP is proposing to add six new tanks under the crude oil storage tank cap. The operating scenario presented in this application provides a total facility throughput of approximately 183 million barrels of crude oil per year. This scenario is presented as an example only. **LOOP requests that the permit not contain any explicit throughput limits or limits on frequency of roof landings and that the cap limit be based on emissions not throughput. LOOP has the flexibility to vary these parameters as operational requirements dictate under the constraints of the permit limit for the cap.**

In preparation of this permit application, existing permitted emission sources were evaluated for operational parameters, emission calculation methodology, and speciation profile in addition to proposed sources. All source calculations are provided in Appendix D.

Provided below is an overview of the changes proposed in this application:

- The addition of six new crude oil storage tanks;
- The addition of one new emergency generator engine;
- Additionally landing losses for crude oil storage tanks;
- Revised fugitive emissions;
- Revised crude oil RVP from 5 to 8;
- Revised landing loss calculations based on RVP 8;
- Reconciled tank fittings to as-built;
- Delete EQT005 turbine generator and EQT010 fire pump engine;
- Reconciled engines per field verification, including an updated source description. Emissions based on appropriate AP-42 chapter, according to size; and
- Updated the Insignificant Activities list.

1.3 EMISSION SOURCES AND CALCULATION METHODOLOGY

Emission sources included in this permit application include the salt dome caverns and brine storage reservoir, storage tanks, fuel tanks, pump and generator engines, and fugitive emissions.

Calculation methodology follows the latest EPA TANKS Program Version 4.0.9d, Water9 Program software, and AP-42 Emission Factors. Roof landing losses are calculated based on guidance from AP-42 Chapter 7.1 Organic Liquid Storage Tanks and API Technical Report 2567, *Evaporative Loss from Storage Tank Floating Roof Landings*. Emission calculations can be found in Appendix D, including detailed report printouts from TANKS 4.0.9d. Please note that VOCs toxics have been speciated in accordance with EPA's TANKS 4.0.9d, where appropriate.

LAC 33:III.501.B.5 Insignificant Activity List

In accordance with LAC 33:III.501.B.5, certain activities are approved by the permitting authority as insignificant on the basis of size, emission or production rate, or type of pollutant. As specified by LAC 33:III.517, where applicable, those activities listed in Part A of the Insignificant Activities List must be listed in the facility's permit. Below outlines the Insignificant Activities Based on Size or Emission Rate as it applies to the LOOP Complex.

A-1 External combustion equipment with a design rate greater than or equal to 1 million Btu per hour, but less than or equal to 10 million Btu per hour, provided that the aggregate emissions from all such units listed as insignificant do not exceed five tons per year.

Not applicable to the LOOP Complex.

A-2 Storage tanks less than 250 gallons storing organic liquids having a true vapor pressure less than or equal to 3.5 psia, provided that the aggregate emissions from all such organic liquid storage tanks listed as insignificant do not exceed five tons per year, do not exceed any Minimum Emission Rate listed in LAC:33.III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established pursuant to Section 112(g) of the federal Clean Air Act.

LOOP LLC has identified three (3) storage tanks less than 250 gallons storing organic liquids having a true vapor pressure less than or equal to 3.5 psia. These tanks are presented in Appendix D, Insignificant Activities emission calculations. Aggregate emissions are well below five tons per year, do not exceed any MER, and do not exceed any HAP de minimis rate.

A-3 Storage tanks less than 10,000 gallons storing organic liquids having a true vapor pressure less than 0.5 psia, provided that the aggregate emissions from all such organic liquid storage tanks listed as insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established pursuant to Section 112(g) of the federal Clean Air Act.

LOOP LLC has identified thirteen (13) storage tanks less than 10,000 gallons (inclusive of A-2 tanks) storing organic liquids having a true vapor pressure less than or equal to 0.5 psia. These tanks are presented in Appendix D, Insignificant Activities emission calculations. Aggregate emissions are well below five tons per year, do not exceed any MER, and do not exceed any HAP de minimis rate.

A-4 Emissions of any inorganic air pollutant that is not a regulated air pollutant as defined under LAC 33:III.502, provided that the aggregate emissions from all such pollutants listed as insignificant do not exceed five tons per year.

Not applicable to the LOOP Complex.

A-5 External combustion equipment with a design rate less than 1 million Btu per hour.

Not applicable to the LOOP Complex.

A-6 Emissions from laboratory equipment/vents used exclusively for routine chemical or physical analysis for quality control or environmental monitoring purposes, provided that the aggregate emissions from all such equipment vents considered insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

The LOOP Complex may engage in routine chemical or physical analysis for quality control or environmental monitoring purposes. Aggregate emissions will not exceed five tons per year, will not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and

will not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

A-7 Noncommercial water washing operations of empty drums less than or equal to 55 gallons with less than 3 percent of the maximum container volume of material.

The LOOP Complex may water wash empty containers less than or equal to 55 gallons containing less than three percent of the maximum container volume. These activities may occur at any time throughout the calendar year.

A-8 Portable fuel tanks used on a temporary basis in maintenance and construction activities, provided that the aggregate emissions from all such tanks listed as insignificant do not exceed five tons per year.

The LOOP Complex may use portable fuel tanks on a temporary basis for maintenance and construction activities. Aggregate emissions from all such tanks listed as insignificant will not exceed five tons per year.

A-9 Emissions from process stream or process vent analyzers, provided that the aggregate emissions from all such analyzers listed as insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

Not applicable to the LOOP Complex.

A-10 Storage tanks containing, exclusively, soaps, detergents, surfactants, waxes, glycerin, vegetable oils, greases, animal fats, sweetener, molasses, corn syrup, aqueous salt solutions, or aqueous caustic solutions, provided an organic solvent has not been mixed with such materials, the tanks are not subject to 40 CFR 60, Subpart Kb or other federal regulation, and the aggregate emissions from all such tanks listed as insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

Not applicable to the LOOP Complex.

A-11 Catalyst charging operations, provided all such operations listed as insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

Not applicable to the LOOP Complex.

A-12 Portable cooling towers used on a temporary basis in maintenance activities, provided that the aggregate emissions from all such cooling towers listed as insignificant do not exceed five tons per year, do not exceed any minimum emission rate listed in LAC 33:III.5112, Table 51.1, and do not exceed any hazardous air pollutant de minimis rate established in accordance with Section 112(g) of the federal Clean Air Act.

Not applicable to the LOOP Complex.

1.4 REGULATORY APPLICABILITY

Provided herein, is a brief description of applicable state and federal air quality regulations for the LOOP Complex. For a comprehensive analysis, including monitoring, reporting, and recordkeeping requirements, please refer to Section 2.0 Regulatory Tables 1-4 in form item number 23.

Louisiana Administrative Code

Chapter 5 Permit Procedures

The provisions of this Chapter apply to the owner or operator of any source which emits or has the potential to emit any air contaminant in Louisiana. This Chapter dictates permitting procedures under the State permitting program and the federal Title V permitting program, including New Source Review procedures.

The LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 9 General Regulations of Control of Emissions and Emission Standards

Under this Chapter, emission standards are set at levels of air quality for the protection of public health and of public welfare from any known or anticipated adverse effects of air contaminants.

Air pollution control facilities should be installed whenever practically, economically, and technologically feasible. Control facilities shall be operated and maintained in proper working order to ensure the reduction of emissions to the atmosphere, as designed. Unauthorized discharges of any air pollutant into the atmosphere shall be promptly reported and in accordance with the provision in this Chapter.

The LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 11 Control of Emissions of Smoke

This Chapter regulates control of emissions of smoke through establishing opacity limitations from combustion units. Regulations also dictate that outdoor burning of waste material or other combustible material and impairment of road visibility is prohibited.

The LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 13 Emission Standards for Particulate Matter

All reasonable precautions shall be taken to prevent particulate matter from becoming airborne. These precautions shall include but not be limited to use of water or chemicals for control of dust, covering of open-bodied trucks transporting materials likely to become airborne, and paving roadways and maintaining them in a clean condition. LOOP has the general requirement to control the shade or appearance of particulate emissions to less than 20% average opacity, except for one 6-minute period in any 60 consecutive minutes.

The LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 15 Emission Standards for Sulfur Dioxide

Chapter 15 establishes emissions limitations on new or existing sulfuric acid production units, new or existing sulfur recovery plants, and all other single point sources that emit or have the potential to emit 5 tons per year or more of sulfur dioxide into the atmosphere.

EQT005, Turbine Generator (7-78) has the potential to emit 5 tons per year or more of sulfur dioxide into the atmosphere and therefore, is subject to the requirements of this Chapter. The LOOP Complex complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 21 Control of Emission of Organic Compounds

Chapter 21 addresses such activities as control of emissions of organic compounds from storage tanks, fugitives, and best practical housekeeping and maintenance practices of organic compound emissions.

The LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 51 Comprehensive Toxic Air Pollutant Emission Control Program

The provisions of this Chapter apply to the owner or operators of any major source, as defined in this Chapter. A major source is any stationary source (including all emission points and units of such source located within a contiguous area and under common control) of pollutants that emits, or has the potential to emit, in the aggregate, 10 tons per year or more of any toxic air pollutant (TAP) listed in Table 51.1 or 25 tons per year or more of any combination of TAPs listed in Table 51.1.

The LOOP LLC is not considered a major source and is therefore not subject to the requirements of Chapter 51.

Chapter 56 Prevention of Air Pollution Emergency Episodes

Chapter 56 addresses preparation of standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Standby plans shall be designed to reduce or eliminate emissions in accordance with the objectives set forth in LAC 33:III.5611 Tables 5, 6, and 7. When requested by the LDEQ, the LOOP Complex shall prepare and submit a standby plan according to the action level declared. The facility shall have 30 days from the date of request to submit the plan.

The LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Chapter 59 Chemical Accident Prevention and Minimization Consequences

Owners and operators of stationary sources producing, processing, handling, or storing substances listed in 40 CFR 68.130, Table 59.0 of this Chapter, or Table 59.1 of this Chapter in quantities greater than the threshold quantities listed in those respective places, have a general duty in the same manner and same extent as Section 654 of Title 29 of the

US Code (OSHA) to identify hazards that may result from accidental releases of such substances using appropriate hazard assessment techniques, to design and maintain a safe facility, and to minimize the off-site consequences of accidental release of such substances that do occur.

The LOOP Complex does not handle listed substances in quantities greater than applicability threshold and therefore, not applicable to this Chapter.

Code of Federal Regulations

New Source Performance Standards (NSPS) (40 CFR Part 60)

Subpart A General Provisions

This subpart contains general notification, recordkeeping, and monitoring requirements that apply to any source subject to any NSPS regulation, unless the NSPS regulation specifically exempts the source from the provisions of this subpart.

LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Subpart Ka Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification commenced after May 18, 1978, and Prior to July 23, 1984

The existing crude oil storage tank, Emission Point 1-78 is subject to this part. This tank is equipped with an external floating roof that meets all of the requirements of Subpart Ka.

Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984

The existing crude oil storage tanks, permitted under the existing tank cap (GRP003) are subject to this part, as will be the six new tanks. Each crude oil storage tank is equipped with an external floating roof that meets all of the requirements of Subpart Kb.

Subpart IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

The proposed emergency engine will be subject to the emission standards under this Subpart. The engine will be equipped with non-resettable hour meter.

LOOP LLC shall comply with all applicable operating, monitoring, reporting, and recordkeeping requirements provided in this Subpart.

National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR 63)

Subpart A General Provisions

This subpart contains general performance test, monitoring, notification, recordkeeping, reporting, and control device requirements that apply to any source subject to any Part 63 NESHAP regulation, unless the NESHAP regulation specifically exempts the source from the provisions of this subpart.

LOOP LLC complies with all applicable provisions of this Chapter in a timely and forthcoming manner.

Subpart ZZZZ NESHAP for Stationary Reciprocating Internal Combustion Engines

This regulation was recently revised to address existing compression-ignition engines at Major Sources of HAPs. The effective date of the rule is May 3, 2010 and facilities will have three years to comply with applicable requirements.

All stationary reciprocating internal combustion engines, existing and new, at the LOOP Complex are subject to this Subpart. LOOP LLC shall comply with all applicable provisions of this subpart in a timely and forthcoming manner.

Chemical Accident Prevention (40 CFR Part 68)

Owners and operators of stationary sources producing, processing, handling, or storing substances listed in 40 CFR 68.130 in quantities greater than the threshold quantities listed in those respective places, have a general duty in the same manner and same extent as Section 654 of Title 29 of the US Code (OSHA) to identify hazards that may result from accidental releases of such substances using appropriate hazard assessment techniques, to design and maintain a safe facility, and to minimize the off-site consequences of accidental release of such substances that do occur.

The LOOP Complex is not subject to Chemical Accident Prevention provisions and the Risk Management Program (RMP). No regulated substances are handled or stored in quantities greater than the applicable threshold, thus, an RMP is not required.


1.5 PROPOSED EMISSION CHANGES

This application and emissions estimates were prepared with the best data available at the time. Emissions proposed in the below table demonstrate Title V applicability.

TABLE 1			
<i>Facility Emissions</i>			
Pollutant	Permitted Emissions (tpy)	Proposed Emissions (tpy)	Net Change (tpy)
PM10	1.05	2.34	+1.29
SO2	22.56	1.89	-20.67
CO	1.76	10.01	+8.25
NOx	45.56	51.23	+5.67
Total VOC	93.82	182.59	+88.77
Total TAPs	3.057	3.70	+0.13

SECTION 2.0

APPLICATION FOR APPROVAL OF EMISSIONS OF AIR POLLUTANTS FROM PART 70 SOURCES

Department of Environmental Quality Office of Environmental Services Air Permits Division P.O. Box 4313 Baton Rouge, LA 70821-4313 (225) 219-3181	<h1 style="margin: 0;">LOUISIANA</h1> <h2 style="margin: 5px 0 0 0;">Application for Approval of Emissions of Air Pollutants from Part 70 Sources</h2>	
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PLEASE TYPE OR PRINT

1. Facility Information [LAC 33:III.517.D.1]

Facility Name or Process Unit Name (if any) LOOP LLC Port Complex		<input checked="" type="checkbox"/> All Process Units <input type="checkbox"/> Process Unit-specific Permit
Agency Interest Number (A.I. Number) 4634	Currently Effective Permit Number(s) 1560-00027-03	
Company - Name of Owner LOOP LLC		
Company - Name of Operator (if different from Owner)		
Parent Company (if Company - Name of Owner given above is a division)		

Ownership:

Check the appropriate box.

- | | | |
|---|---|---|
| <input type="checkbox"/> corporation, partnership, or sole proprietorship | <input type="checkbox"/> regulated utility | <input type="checkbox"/> municipal government |
| <input type="checkbox"/> state government | <input type="checkbox"/> federal government | <input checked="" type="checkbox"/> other, specify <u>LLC</u> |

2. Physical Location and Process Description [LAC 33:III.517.D.18, unless otherwise stated]

What does this facility produce? Add more rows as necessary.

The LOOP Complex consists of the Clovelly Dome Storage Terminal in Galliano, the Small Boat Harbor in Leeville, and the Fourchon Booster Station in Leeville. The LOOP Complex is currently permitted to handle 230 million barrels of crude oil per year through the Clovelly Dome storage tanks.

What modifications/changes are proposed in this application? Add more rows as necessary.

LOOP proposes to expand its Clovelly Dome Storage Terminal to include six (6) additional storage tanks and one new emergency diesel generator. The new tanks will be modeled after the existing tanks, each being an external floating roof tank and having a diameter of 310 feet. Refer to Figure 2 Plot Plan for the location of the new tanks. The capacity of each of the new tanks will be 600,000 barrels.

Nearest town (in the same parish as the facility):
Galliano

Parish(es) where facility is located:
Lafourche

Distance To (mi):	<u>215</u> Texas	<u>250</u> Arkansas	<u>65</u> Mississippi	<u>125</u> Alabama
Latitude of Facility Front Gate:	<u>29</u> Deg	<u>27</u> Min	<u>11</u> Sec	_____ Hundredths
Longitude of Facility Front Gate:	<u>90</u> Deg	<u>16</u> Min	<u>30</u> Sec	_____ Hundredths
Distance from nearest Class I Area	<u>150</u>	kilometers		

Add physical address and description of location of the facility below. If the facility has no address, provide driving directions. Add more rows as necessary.

LOOP LLC Port Complex (LOOP Complex) is located in Lafourche Parish, Louisiana.

- ☒ Map attached (required per LAC 33:III.517.D.1) **See Figure 1**
- ☒ Description of processes and products attached (required per LAC 33:III.517.D.2) **See Section 1.0**
- ☒ Introduction/Description of the proposed project attached (required per LAC 33:III.517.D.5) **See Section 1.0**

3. Confidentiality [LAC 33.I.Chapter 5]

Are you requesting confidentiality for any information except air pollutant emission rates? ☐ Yes ☒ No

If "yes," list the sections for which confidentiality is requested below. Add rows as necessary. Confidentiality requests require a submittal that is separate from this application. Information for which confidentiality is requested should not be submitted with this application. Consult instructions.

4. Type of Application [LAC 33:III.517.D]

Complete the appropriate column (1 or 2) that corresponds to the type of permit being sought. Check all that apply within the appropriate column.

Column 1	Column 2
<input type="checkbox"/> Part 70 General	<input checked="" type="checkbox"/> Part 70 Regular
<input type="checkbox"/> Renewal	<input type="checkbox"/> Renewal
Select one, if applicable: <input type="checkbox"/> Entirely new facility <input type="checkbox"/> Modification or expansion of existing facility (may also include reconciliations) <input type="checkbox"/> Reconciliation only <input type="checkbox"/> Individual emissions unit(s) addition	Select one, if applicable: <input type="checkbox"/> Entirely new facility <input checked="" type="checkbox"/> Significant modification or expansion of existing facility (may also include reconciliations) [LAC 33:III.527] <input type="checkbox"/> Minor modification or expansion of existing facility (may also include reconciliations) [LAC 33:III.525] <input type="checkbox"/> Reconciliation only NSR Analysis: PSD <input type="checkbox"/> NNSR <input type="checkbox"/>

Does this submittal update or replace an application currently under review? ☐ Yes ☒ No

If yes, provide date that the prior application was submitted: _____

Select one if this application is for an existing facility that does not have an air quality permit:

- ☐ Previously Grandfathered (LAC 33:III.501.B.6)
- ☐ Previously Exempted (e.g., Small Source Exemption; Act 918)
- ☐ Previously Unpermitted

5. Fee Information [LAC 33:III.517.D.17]

Fee Parameter: If the fee code is based on an operational parameter (such as number of employees or capital cost), enter that parameter here. _____

Industrial Category: Enter the Standard Industrial Classification (SIC) Codes that apply to the facility.

Primary SICC: 4612

Secondary SICC(s): _____

Project Fee Calculation: Enter fee code, permit type, production capacity/throughput, and fee amount pursuant to LAC 33:III.Chapter 2. Add rows to this table as needed. Include with the application the amount in the Grand Total blank as the permit application fee.

FEE CODE	TYPE	EXISTING CAPACITY	INCREMENTAL CAPACITY INCREASE	SURCHARGES				TOTAL AMOUNT
				MULTIPLIER	NSPS	PSD	AIR TOXICS	
1364	Major	59.4 MMbbbls	3.6 MMbbbls	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$6,286.25
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$
GRAND TOTAL								\$6,286.25

****Optional** Fee Explanation:** Use the space provided to give an explanation of the fee determination displayed above.
Major Modification Application Fee (\$5,029) + NSPS Surcharge (25%) = \$6,286.25

Electronic Fund Transfer (EFT): If paying the permit application fee using an Electronic Fund Transfer (EFT), please include the EFT Transaction Number, the Date that the EFT was made, and the total dollar amount submitted in the EFT. If not paying the permit application fee using EFT, leave blank.

EFT Transaction Number

Date of Submittal

Total Dollar Amount

\$

6. Key Dates

Estimated date construction will commence: May 2011 Estimated date operation will commence: Jan 2012

7. Pending Permit Applications – For Process Unit-Specific Permits Only

[LAC 33:III.517.D.18]

List all other process units at this facility for which Part 70 permit applications have been submitted, but have not been acted upon by LDEQ as of the date of submittal of this application. If none, state "none" in the table. ****It is not necessary to update this table during the permit review process, unless requested by LDEQ.****

Process Unit Name	Permit Number	Date Submitted

8. LAC 33:I.1701 Requirements – Answer all below for new sources and permit renewals - ☒ Yes ☐ No

Does the company or owner have federal or state environmental permits identical to, or of a similar nature to, the permit for which you are applying in Louisiana or other states? (This requirement applies to all individuals, partnerships, corporations, or other entities who own a controlling interest of 50% or more in your company, or who participate in the environmental management of the facility for an entity applying for the permit or an ownership interest in the permit.)

☒ Yes ☐ No

If yes, list States: Louisiana

Do you owe any outstanding fees or final penalties to the Department? ☐ Yes ☒ No

If yes, explain below. Add rows if necessary.

Is your company a corporation or limited liability company? ☒ Yes ☐ No

If yes, attach a copy of your company's Certificate of Registration and/or Certificate of Good Standing from the Secretary of State. The appropriate certificate(s) should be attached to the end of this application as an appendix.

See Appendix F.

9. Permit Shield Request [LAC 33:III.517.E.7] - ☐ Yes ☒ No

If yes, check the appropriate boxes to indicate the type of permit shield being sought. Include the specific regulatory citation(s) for which the shield is being requested. Give an explanation of the circumstances that will justify the permit shield request. Attach additional pages if necessary. If additional pages are used, attach them directly behind this page and enter "See Attached Pages" into the Explanation field.

Type of Permit Shield request (check all that apply):

Non-applicability determination for:	Specific Citation(s)	Explanation
<input type="checkbox"/> 40 CFR 60		
<input type="checkbox"/> 40 CFR 61		
<input type="checkbox"/> 40 CFR 63		
<input type="checkbox"/> Prevention of Significant Deterioration		
<input type="checkbox"/> Nonattainment New Source Review		

Interpretation of monitoring, recordkeeping, and/or reporting requirements, and/or means of compliance for:	Specific Citation(s)	Explanation
<input type="checkbox"/> 40 CFR 60		
<input type="checkbox"/> 40 CFR 61		
<input type="checkbox"/> 40 CFR 63		
<input type="checkbox"/> Prevention of Significant Deterioration		
<input type="checkbox"/> Nonattainment New Source Review		
<input type="checkbox"/> State Implementation Plan (SIP) Regulation(s) referenced in 40 CFR 52 Subpart T		

10. Certification of Compliance With Applicable Requirements


Statement for Applicable Requirements for Which the Company and Facility Referenced In This Application Is In Compliance

Based on information and belief, formed after reasonable inquiry, the company and facility referenced in this application is in compliance with and will continue to comply with all applicable requirements pertaining to the sources covered by the permit application, as outlined in Tables 1 and 2 in the permit application.

For requirements promulgated as of the date of this certification with compliance dates effective during the permit term, I further certify that the company and facility referenced in this application will comply with such requirements on a timely basis and will continue to comply with such requirements.

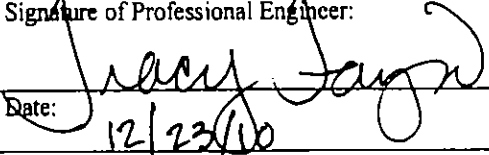
CERTIFICATION: I certify, under provisions in Louisiana and United States law which provide criminal penalties for false statements, that based on information and belief formed after reasonable inquiry, the statements and information contained in this Application for Approval of Emissions of Air Pollutants from Part 70 Sources, including all attachments thereto and the compliance statement above, are true, accurate, and complete.

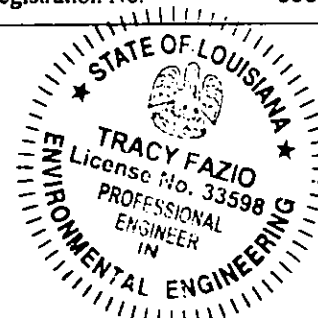
a. Responsible Official		
Name CaSandra J. Cooper-Gates		
Title Senior Vice President Administration		
Company LOOP LLC		
Suite, mail drop, or division		
Street or P.O. Box 137 Northpark Dr.		
City Covington	State LA	Zip 70433-5071
Business phone (985) 276-6282		
Email Address ccoopergates@loopllc.com		

Signature of responsible official (See 40 CFR 70.2): 	
Date: <u>December 21, 2010</u>	

CERTIFICATION: I certify that the engineering calculations, drawings, and design are true and accurate to the best of my knowledge.

b. Professional Engineer		
Name Tracy Fazio, PE		
Title Project Engineer		
Company C-K Associates, LLC		
Suite, mail drop, or division 17170 Perkins Rd		
Street or P.O. Box		
City Baton Rouge	State LA	Zip 70810
Business phone 225-755-1000		
Email Address tracy.fazio@c-ka.com		

Signature of Professional Engineer: 	
Date: <u>12/23/10</u>	
Louisiana Registration No.	33598



11. Personnel [LAC 33:III.517.D.1]

a. Manager of Facility who is located at plant site		
Name Chris Labat	<input type="checkbox"/> Primary contact	
Title General Manager of Operations		
Company LOOP LLC		
Suite, mail drop, or division		
Street or P.O. Box 224 East 101 Place		
City Cut Off	State LA	Zip 70345
Business phone (985) 696-4836		
Email address calabat@loopllc.com		

b. On-site contact regarding air pollution control		
Name Same as a.	<input type="checkbox"/> Primary contact	
Title		
Company		
Suite, mail drop, or division		
Street or P.O. Box		
City	State	Zip
Business phone		
Email address		

c. Person to contact with written correspondence		
Name Cynthia A. Gardner-LeBlanc	<input checked="" type="checkbox"/> Primary contact	
Title Senior Regulatory Representative		
Company LOOP LLC		
Suite, mail drop, or division		
Street or P.O. Box 137 Northpark Dr.		
City Covington	State LA	Zip 70433-5071
Business phone (985) 276-6299		
Email address cgbleblanc@loopllc.com		

d. Person who prepared this report		
Name Jennifer Tullier	<input type="checkbox"/> Primary contact	
Title Environmental Scientist		
Company C-K Associates, LLC		
Suite, mail drop, or division		
Street or P.O. Box 17170 Perkins Road		
City Baton Rouge	State LA	Zip 70810
Business phone 225-755-1000		
Email address Jennifer.Tullier@c-ka.com		

e. Person to contact about Annual Maintenance Fees		<input type="checkbox"/> a <input type="checkbox"/> b <input checked="" type="checkbox"/> c <input type="checkbox"/> d <input type="checkbox"/> other (specify below)	
Name	<input type="checkbox"/> Primary contact	Suite, mail drop, or division	
Title		Street or P.O. Box	
Company		City	State Zip
Business Phone		Email Address	

12. Proposed Project Emissions [LAC 33:III.517.D.3]

List the total emissions following the proposed project for this facility or process unit (for process unit-specific permits). Speciate all criteria pollutants, TAP, and HAP for the proposed project.

[illegible]

List each of the following in chronological order:

- The Permit Number and Date Action Issued for each air quality permit that has been issued to this facility or process unit (for process unit-specific permits) within the last ten (10) years.
- All small source exemptions, authorizations to construct, administrative amendments, case-by-case insignificant activities, and changes of tank service that have been approved since the currently effective Title V Operating Permit or State Operating Permit was issued to this facility or process unit (for process unit-specific permits). It is not necessary to list any such activities issued prior to the issuance of the currently effective Title V Operating Permit or State Operating Permit, if one exists.

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List each of the following:

- All currently effective air quality permits for this facility. All process units located at this facility should be represented in this section. This includes any Acid Rain or PSD permits.

- Show each permitting action's grand total for each permitted pollutant. These rates should be those shown in the permitting action as issued by LDEQ and not those shown in the application for the permitting action. For administrative amendments, it is only necessary to state the emission rates that were amended.

As the last entry, show the facility-wide grand total for each pollutant.

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06/06/07

15.a. Enforcement Actions [LAC 33:III.517.D.18] - ☐ Yes ☒ No

If yes, list all federal and state air quality enforcement actions, settlement agreements, and consent decrees received for this facility and/or process unit (for process unit-specific permits) since the issuance of the currently effective Title V Operating Permit or State Operating Permit. For each action, list the type of action (or its tracking number), the regulatory authority or authorities that issued the action, and the date that the action was issued. Summarize the conditions imposed by the enforcement action, settlement agreement, and consent decree in Section 23, Table 2. It is not necessary to submit a copy of the referenced action. Add rows to table as necessary.

Type of Action or Tracking Number	Issuing Authority	Date Action Issued	Summary of Conditions Included?
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

15.b. Schedule for Compliance [LAC 33:III.517.E.4] ☐ Yes ☒ No

If the facility or process unit for which application is being made is not in full compliance with all applicable regulations, give a description of how compliance will be achieved, including a schedule for compliance below. Add rows as necessary. See instructions.

16. Letters of Approval for Alternate Methods of Compliance - ☐ Yes ☒ No

If yes, list all correspondence with LDEQ, EPA, or other regulatory bodies that provides for or supports a request for alternate methods of compliance with any applicable regulations for this facility or process unit (for process unit-specific permits). List the date of issuance of the letter and the regulation referenced by the letter. **Attach as an appendix a copy of all documents referenced in this table.** Letters that are not included may not be incorporated into a final permit. Add rows to table as necessary.

Date Letter Issued	Issuing Authority	Referenced Regulation(s)	Copy of Letter Attached?
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

17. Initial Notifications and Performance Tests [LAC 33:III.517.E.1] - ☐ Yes ☒ No

If yes, list any initial notifications that have been submitted or one-time performance tests that have been performed for this facility or process unit (for process unit-specific permits) since the issuance of the currently effective Title V Operating Permit or State Operating Permit in order to satisfy regulatory requirements. Any initial notification or one-time performance test requirements that have not been satisfied should be listed in Section 23, Table 2 of this application. Any notifications or performance tests that recur periodically should also be properly noted in Section 23, Table 2 of this application. Add rows to table as necessary.

Initial Notification or One-time Performance Test?	Regulatory Citation Satisfied	Date Completed/Approved

18. Existing Prevention of Significant Deterioration or Nonattainment New Source Review Limitations [LAC 33:III.517.D.18]

Do one or more emissions sources represented in this permit application currently operate under one or more NSR permits?

☐ Yes ☒ No

If "yes," summarize the limitations from such permit(s) in the following table. Add rows to table as necessary. Be sure to note any annual emissions limitations from such permit(s) in Sections 13 and 14 of this application.

Permit Number	Date Issued	Emission Point ID No.	Pollutant	BACT/LAER Limit ¹	Averaging Period	Description of Control Technology/Work Practice Standards

¹For example, lb/MM Btu, ppmvd @ 15% O₂, lb/ton, lb/hr

19. Air Quality Dispersion Modeling [LAC 33:III.517.D.15]

Was Air Quality Dispersion Modeling as required by LAC 33:III performed in support of this permit application? (Air Quality Dispersion Modeling is only required when applying for PSD permits and as requested by LDEQ.)

☐ Yes ☒ No

Has Air Quality Dispersion Modeling completed in accordance with LAC 33:III ever been performed for this facility in support of a air permit application previously submitted for this facility or process unit (for process unit-specific permits) or as required by other regulations AND approved by LDEQ?

☐ Yes ☒ No

If yes, enter the date the most recent Air Quality Dispersion Modeling results as required by LAC 33:III were submitted:

If the answer to either question above is "yes," enter a summary of the most recent results in the following table. If the answer to both questions is "no," enter "none" in the table. Add rows to table as necessary.

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Standard or (National Ambient Air Quality Standard {NAAQS})

20. General Condition XVII Activities- ☐ Yes ☒ No

Enter all activities that qualify as Louisiana Air Emissions Permit General Condition XVII Activities.

- Expand this table as necessary to include all such activities.
- See instructions to determine what qualifies as a General Condition XVII Activity.
- Do not include emissions from General Condition XVII Activities in the proposed emissions totals for the permit application.

Work Activity	Schedule	Emission Rates – TPY					
		PM ₁₀	SO ₂	NO _x	CO	VOC	Other

21. Insignificant Activities [LAC 33:III.501.B.5] - ☐ Yes ☒ No

Enter all activities that qualify as Insignificant Activities.

- Expand this table as necessary to include all such activities.
- For sources claimed to be insignificant based on size or emission rate (LAC 33:III.501.B.5.A), information must be supplied to verify each claim. This may include but is not limited to operating hours, volumes, and heat input ratings.
- If aggregate emissions from all similar pieces of equipment (i.e. all LAC 33:III.501.B.5.A.1 activities) claimed to be insignificant are greater than 5 tons per year for any pollutant, then the activities can not be claimed as insignificant and must be represented as permitted emission sources. Consult instructions.

Emission Point ID No.	Description	Physical/Operating Data	Citation
2-78	Fuel Tank for Emergency Generators (Clovelly Dome)	8,200 gallons	LAC 33:III.501.B.5.A.3
22-78	Emergency Crude Transfer Pump Fuel Tank (Clovelly Dome)	8,200 gallons	LAC 33:III.501.B.5.A.3
25-88	Tank 3 Operations Center Fuel Tank (Clovelly Dome)	550 gallons	LAC 33:III.501.B.5.A.3
26-88	Tank 4 Operations Center Tank (Clovelly Dome)	4,000 gallons	LAC 33:III.501.B.5.A.3
27-88	Tank 5 Fourchon Booster Station Tank	1,000 gallons	LAC 33:III.501.B.5.A.3
28-88	Tank 6 Fourchon Booster Station Emergency Generator Fuel Tank	322 gallons	LAC 33:III.501.B.5.A.3
29-88	Tank 7 Fourchon Booster Station Dock Fuel Tank	560 gallons	LAC 33:III.501.B.5.A.3
30-88	Tank 8 Clovelly Day Tank for Fire Pump	80 gallons	LAC 33:III.501.B.5.A.2
31-88	Tank 9 Clovelly Day Tank for Generator	116 gallons	LAC 33:III.501.B.5.A.2
32-88	Tank 10 Clovelly Underground Slop Oil Tank by Lab	2,000 gallons	LAC 33:III.501.B.5.A.3
34-88	Tank 12 Small Boat Harbor Tank	260 gallons	LAC 33:III.501.B.5.A.3
36-89	Day Tank for Operations Center Standby Generator (Clovelly Dome)	94 gallons	LAC 33:III.501.B.5.A.2
37-91	Small Boat Harbor Diesel Tank	564 gallons	LAC 33:III.501.B.5.A.3
N/A	Hurricane Season portable generator engines (10)	Emissions from testing < 5 tpy	LAC 33:III.501.B.5.D

22. Regulatory Applicability for Commonly Applicable Regulations – Answer all below [LAC 33:III.517.D.10]

Does this facility contain asbestos or asbestos containing materials? ☐ Yes ☒ No

If "yes," the facility or any portion thereof may be subject to 40 CFR 61, Subpart M, LAC 33:III.Chapter 27, and/or LAC 33:III.5151 and this application must address compliance as stated in Section 23 of this application

Is the facility or process unit represented in this permit subject to 40 CFR 68, or is any other process unit located at the same facility as the process unit represented in this application subject to 40 CFR 68? ☐ Yes ☒ No

If "yes," the entire facility is subject to 40 CFR 68 and LAC 33:III.Chapter 59 and this application must address compliance as stated in Section 23 of this application.

Is the facility listed in LAC 33:III.5611

Table 5 ☐ Yes ☒ No

Table 6 ☐ Yes ☒ No

Table 7 ☐ Yes ☒ No

Does the applicant own or operate commercial refrigeration equipment normally containing more than 50 pounds of refrigerant at this facility or process unit? ☐ Yes ☒ No

If "yes," the entire facility is subject to 40 CFR 82, Subpart F and this application must address compliance as stated in Section 23 of this application.

23. Applicable Regulations, Air Pollution Control Measures, Monitoring, and Recordkeeping

Important points for Table 1 [LAC 33:III.517.D.10]:

- List in Table 1, by Emission Point ID Number and Descriptive Name of the Equipment, state and federal pollution abatement programs and note the applicability or non-applicability of the regulations to each source.
- Adjust the headings for the columns in Table 1 as necessary to reflect all applicable regulations, in addition to any regulations that do not apply but need an applicability determination to verify this fact.
- For each piece of equipment, enter "1" for each regulation that applies. Enter "2" for each regulation that applies to this type of source, but from which this source of emissions is exempt. Enter "3" for equipment that is subject to a regulation, but does not have any applicable requirements. Also, enter "3" for each regulation that have applicable requirements that apply to the particular emission source but the regulations currently do not apply due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place.
- Leave the spaces blank when the regulations clearly would not apply under any circumstances to the source. For example, LAC 33:III.2103 – Storage of Volatile Organic Compounds would never apply to a steam generating boiler, no matter the circumstances.
- Consult instructions.

Important points for Table 2 [LAC 33:III.517.D.4; LAC 33:III.517.D.7; LAC 33:III.517.D.10]:

- For each piece of equipment listed in Table 2, include all applicable limitation, recordkeeping, reporting, monitoring, and testing requirements. Also include any one-time notification or one-time tests performance test requirements that have not been fulfilled.
- Each of these regulatory aspects (limitation, recordkeeping, reporting, etc.) should be addressed for each regulation that is applicable to each emissions source or emissions point.
- For each regulation that provides a choice regarding the method of compliance, indicate the method of compliance that will be employed. It is not sufficient to state that all compliance options will be employed, though multiple compliance options may be approved as alternative operating scenarios.
- Consult instructions.

Important points for Table 3 [LAC 33:III.517.D.16]:

- Each time a 2 or a 3 is used to describe applicability of a source in Table 1, an entry should be made in Table 3 that explains the exemption or non-applicability status of the regulation to that source.
- Fill in all requested information in the table.
- The exact regulatory citation that provides for the specific exemption or non-applicability determination should be entered into the Citation Providing for Exemption or Non-applicability column.
- Consult Instructions.

Important points for Table 4 [LAC 33:III.517.D.18]

- List any single emission source that routes its emissions to another point where these emissions are commingled with the emissions of other sources before being released to the atmosphere. Do not list any single emission source in this table that does not route its emissions in this manner.
- List any and all emission sources that are routed as described above. This includes emission sources that do not otherwise appear in this permit application.
- Consult instructions.

TABLE 1: APPLICABLE LOUISIANA AND FEDERAL AIR QUALITY REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Source ID No.:		LAC 33:III														
		5	9	11	13	15	2103	2104	2107	2111	2113	22	29	51	56	59
Facility wide	LOOP LLC Port Complex	1	1		1						1			3	1	3
EQT003	1-78 Crude Relief Tank (Clovelly Dome)						1									
EQT004	5-78 Slop Oil Tank (Small Boat Harbor)						3									
FUG001	10-78 Fugitive Emissions (Clovelly Dome)								1							
EQT006	11-78 Fourchon Booster Station No. 2 Fuel Tank No. 1						3									
EQT007	12-78 Salt Dome Cavities (9) / Piping, and Brine Storage Reservoir (Clovelly Dome)															
EQT008	13-78 Fourchon Booster Station No. 2 Fuel Tank No. 2						3									
EQT009	15-78 Fourchon Booster Station Standby Generator			1	1											
EQT011	17-78 Clovelly Dome - Operations Center Standby Generator			1	1											
EQT012	18-78 Clovelly Dome - Emergency Crude Transfer Pump			1	1											
EQT013	19-78 Clovelly Dome - Portable Diesel Generator			1	1											
EQT014	20-78 Clovelly Fire Pump			1	1											
EQT015	21-78 Clovelly Dome - Standby Generator - Brine Storage Reservoir			1	1											
EQT016	23-88 Clovelly Dome - Tank 1 Operations Center						1									
EQT017	24-88 Clovelly dome - Tank 2 Operations Center						1									
EQT018	35-88 Clovelly Dome - Fire School Pump			1	1											
EQT019	38-91 Clovelly Dome - Operations Center Fire Pump			1	1											
EQT020	5-99 Clovelly Dome - Crude Oil Tank Farm Firewater Pump			1	1											
EQT021	1-07 470 bhp Emergency Generator (Small Boat Harbor)			1	1											
EQT022	2-07 470 bhp Emergency Generator (Tank Facility)			1	1											
EQT023	3-07 671 bhp Emergency Generator (Clovelly Dome)			1	1											
EQT024	4-07 671 bhp Emergency Generator (Clovelly Control Room)			1	1											
EQT025	5-07 268 bhp Emergency Generator (OC Warehouse)			1	1											
EQT026	6-07 168 bhp Emergency Generator (Locap)			1	1											

TABLE 1: APPLICABLE LOUISIANA AND FEDERAL AIR QUALITY REQUIREMENTS
 LOOP, LLC - Port Complex
 Lafourche Parish, Louisiana

Source ID No.:		LAC 33:III														
		5	9	11	13	15	2103	2104	2107	2111	2113	22	29	51	56	59
GRP003	Clovelly Dome Crude Oil Storage Tank CAP	1														
EQT027	1-99 Tank 6401 (Clovelly Dome)						1									
EQT028	2-99 Tank 6402 (Clovelly Dome)						1									
EQT029	3-99 Tank 6405 (Clovelly Dome)						1									
EQT030	4-99 Tank 6406 (Clovelly Dome)						1									
EQT031	6-02 Tank 6409 (Clovelly Dome)						1									
EQT032	7-02 Tank 6410 (Clovelly Dome)						1									
EQT033	8-07 Tank 6403 (Clovelly Dome)						1									
EQT034	9-07 Tank 6404 (Clovelly Dome)						1									
EQT035	10-07 Tank 6407 (Clovelly Dome)						1									
EQT036	11-07 Tank 6408 (Clovelly Dome)						1									
EQT037	12-07 Tank 6411 (Clovelly Dome)						1									
EQT038	13-07 Tank 6412 (Clovelly Dome)						1									
EQT039	14-07 Tank 6413 (Clovelly Dome)						1									
EQT040	15-07 Tank 6414 (Clovelly Dome)						1									
NEW	16-10 Tank 6415 (Clovelly Dome)						1									
NEW	17-10 Tank 6416 (Clovelly Dome)						1									
NEW	18-10 Tank 6417 (Clovelly Dome)						1									
NEW	19-10 Tank 6418 (Clovelly Dome)						1									
NEW	20-10 Tank 6419 (Clovelly Dome)						1									
NEW	21-10 Tank 6420 (Clovelly Dome)						1									
NEW	1-10 520 HP Emergency Generator			1	1											

TABLE 1: APPLICABLE LOUISIANA AND FEDERAL AIR QUALITY REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Source ID No.:	Descriptive Name of the Source	40 CFR 60					40 CFR 61			40 CFR 63				40 CFR	
		A	Ka	Kb	GG	IIII	A	FF	A	VV	ZZZZ	CCCCC	64	68	
Facility wide	LOOP LLC Port Complex	1								1					3
EQT003	1-78 Crude Relief Tank (Clovelly Dome)		1												
EQT004	5-78 Slop Oil Tank (Small Boat Harbor)		3												
FUG001	10-78 Fugitive Emissions (Clovelly Dome)														
EQT006	11-78 Fourchon Booster Station No. 2 Fuel Tank No. 1		3												
EQT007	12-78 Salt Dome Cavities (9) / Piping, and Brine Storage Reservoir (Clovelly Dome)														
EQT008	13-78 Fourchon Booster Station No. 2 Fuel Tank No. 2		3												
EQT009	15-78 Fourchon Booster Station Standby Generator					3					1				
EQT011	17-78 Clovelly Dome - Operations Center Standby Generator					3					1				
EQT012	18-78 Clovelly Dome - Emergency Crude Transfer Pump					3					1				
EQT013	19-78 Clovelly Dome - Portable Diesel Generator					3					1				
EQT014	20-78 Clovelly Fire Pump					3					1				
EQT015	21-78 Clovelly Dome - Standby Generator - Brine Storage Reservoir					3					1				
EQT016	23-88 Clovelly Dome - Tank 1 Operations Center			3								1			
EQT017	24-88 Clovelly dome - Tank 2 Operations Center			3								1			
EQT018	35-88 Clovelly Dome - Fire School Pump					3					1				
EQT019	38-91 Clovelly Dome - Operations Center Fire Pump					3					1				
EQT020	5-99 Clovelly Dome - Crude Oil Tank Farm Firewater Pump					3					1				
EQT021	1-07 470 bhp Emergency Generator (Small Boat Harbor)					3					1				
EQT022	2-07 470 bhp Emergency Generator (Tank Facility)					3					1				
EQT023	3-07 671 bhp Emergency Generator (Clovelly Dome)					3					1				

TABLE 1: APPLICABLE LOUISIANA AND FEDERAL AIR QUALITY REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Source ID No.:	Descriptive Name of the Source	40 CFR 60					40 CFR 61			40 CFR 63				40 CFR		
		A	Ka	Kb	GG	III	A	FF	A	VV	ZZZ	CCCCC	64	68		
EQT024	4-07 671 bhp Emergency Generator (Clovelly Control Room)					3					1					
EQT025	5-07 268 bhp Emergency Generator (OC Warehouse)					3					1					
EQT026	6-07 168 bhp Emergency Generator (Locap)					3					1					
GRP003	Clovelly Dome Crude Oil Storage Tank CAP			1												
EQT027	1-99 Tank 6401 (Clovelly Dome)			1												
EQT028	2-99 Tank 6402 (Clovelly Dome)			1												
EQT029	3-99 Tank 6405 (Clovelly Dome)			1												
EQT030	4-99 Tank 6406 (Clovelly Dome)			1												
EQT031	6-02 Tank 6409 (Clovelly Dome)			1												
EQT032	7-02 Tank 6410 (Clovelly Dome)			1												
EQT033	8-07 Tank 6403 (Clovelly Dome)			1												
EQT034	9-07 Tank 6404 (Clovelly Dome)			1												
EQT035	10-07 Tank 6407 (Clovelly Dome)			1												
EQT036	11-07 Tank 6408 (Clovelly Dome)			1												
EQT037	12-07 Tank 6411 (Clovelly Dome)			1												
EQT038	13-07 Tank 6412 (Clovelly Dome)			1												
EQT039	14-07 Tank 6413 (Clovelly Dome)			1												
EQT040	15-07 Tank 6414 (Clovelly Dome)			1												
NEW	16-10 Tank 6415 (Clovelly Dome)			1												
NEW	17-10 Tank 6416 (Clovelly Dome)			1												

TABLE 1: APPLICABLE LOUISIANA AND FEDERAL AIR QUALITY REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Source	Descriptive Name of the Source	40 CFR 60					40 CFR 61		40 CFR 63				40 CFR	
ID No.:		A	Ka	Kb	GG	IIII	A	FF	A	VV	ZZZZ	CCCCC	64	68
NEW	18-10 Tank 6417 (Clovelly Dome)			1										
NEW	19-10 Tank 6418 (Clovelly Dome)			1										
NEW	20-10 Tank 6419 (Clovelly Dome)			1										
NEW	21-10 Tank 6420 (Clovelly Dome)			1										
NEW	1-10 520 HP Emergency Generator					1					1			

KEY:

- 1 The regulations have applicable requirements, which apply to this particular emission source. The emissions source may have an exemption from the control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 The regulations have applicable requirements, which may apply to this particular emissions source, but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has been constructed, modified, or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/Frequency	State Only Requirement
EQT003 1-78 Crude Relief Tank (Cloveley Dome)	Chapter 21 - Control of Emission of Organic Compounds	Requirements that limit emissions or operations -			
		Equip with a submerged fill pipe.	LAC 33:III.2103.B		
		Seal closure devices required in LAC 33:III.2103D shall have no visible holes, tears, or other openings in the seals or seal fabric.	LAC 33:III.2103.D.2.a		
		Seal closure devices required in LAC 33:III.2103D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.	LAC 33:III.2103.D.2.b		
		Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm ² /0.3m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.	LAC 33:III.2103.D.2.c	All year	
		Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm ² /0.3m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.	LAC 33:III.2103.D.2.d	All year	
		Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.	LAC 33:III.2103.D.2.e		
		Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90% of the opening.	LAC 33:III.2103.D.3		
		Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.	LAC 33:III.2103.D		
		Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.	LAC 33:III.2103.H		
		Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.	LAC 33:III.2103.H.3		

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
EQT003 1-78 Crude Relief Tank (Cloveley Dome)	40 CFR Part 60 NSPS Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, or Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal.	40 CFR 60.112a(a)(1)(i)		
		Seal gap area $\leq 10.0 \text{ in}^2/\text{ft}$ (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal.	40 CFR 60.112a(a)(1)(i)(A)	All year	
		Seal gap width $\leq 1.5 \text{ in}$ (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal.	40 CFR 60.112a(a)(1)(i)(A)	All year	
		One end of the primary seal metallic shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 24 inches (61 centimeters) above the stored liquid surface.	40 CFR 60.112a(a)(1)(i)(C)		
		There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope.	40 CFR 60.112a(a)(1)(i)(D)		
		Install the secondary seal above the primary seas so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112a(a)(1)(ii)(B).	40 CFR 60.112a(a)(1)(ii)(A)		
		Seal gap area $\leq 1.0 \text{ in}^2/\text{ft}$ (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seas used in combination with a metallic shoe or liquid-mounted primary seal.	40 CFR 60.112a(a)(1)(ii)(B)	All year	
		Seal gap width $\leq 0.5 \text{ in}$ (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal.	40 CFR 60.112a(a)(1)(ii)(B)	All year	
		There are to be no holes, tears, or other openings in the secondary seal fabric, or seal fabric.	40 CFR 60.112a(a)(1)(ii)(C)		
		Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for the automatic bleeder vents, rim space vents and leg sleeve with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use or as described in 40 CFR 60.112a(a)(1)(iv). Close automatic bleeder vents at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturers recommended setting.	40 CFR 60.112a(a)(1)(iii)		
		Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90% of the area of the opening.	40 CFR 60.112a(a)(1)(iv)		

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/Frequency	State Only Requirement
EQT003 1-78 Crude Relief Tank (Clovally Dome)	40 CFR 60 NSPS Subpart Ka	Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112a(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.	40 CFR 60.112a(a)(1)		
	Requirements that specify monitoring -				
	Chapter 21 - Control of Emission of Organic Compounds	Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.	LAC 33:III.2103.D.2.e	All year	
	40 CFR Part 60 NSPS Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	Seal gap area & width monitored by measurement at the regulations specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Accomplish all primary seal inspections or gap measurements which require the removal or dislodging of the secondary seal as rapidly as possible and replace the secondary seal as soon as possible.	LAC 33:III.2103.D.2.e	All year	
		Seal gap area & width monitored by measurement at the regulations specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii).	40 CFR 60.113a(a)(1)(i)(A)	All year	
Chapter 21 - Control of Emission of Organic Compounds	Requirements that specify records to be kept and record retention time -				
		Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2 and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2	LAC 33:III.2103.D.2.e		
		Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1-7, as applicable.	LAC 33:III.2103.I		

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
EQT003 1-78 Crude Relief Tank (Clovally Dome)	40 CFR Part 60 NSPS Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessels on which the measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement process required by 40 CFR 60.113a(a)(1)(ii) and the calculation required by 40 CFR 60.113a(a)(1)(iii). Keep records of each gap measurement at the plant for a period of at least two years following the date of measurement.	40 CFR 60.113a(a)(1)(i)(D)		
		Petroleum liquid storage data recordkeeping by electronic or hard copy continuously. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115.a(d).	40 CFR 60.115a		
		Requirements that specify reports to be submitted -			
EQT009 - EQT015 & EQT018 - EQT026 Internal Combustion Engines	40 CFR Part 60 NSPS Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113a(a)(1)(iii) or the measured maximum seal gap exceeds the limitations specified in 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a.	40 CFR 60.113a(a)(1)(i)(E)		
		Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present.	40 CFR 60.113a(a)(1)(iv)		
		Requirements that specify performance testing -			
EQT009 - EQT015 & EQT018 - EQT026 Internal Combustion Engines		None			
		Requirements that limit emissions or operations -			
	Chapter 11 - Control of Emissions of Smoke	Opacity <= 20%, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20% for not more than one six-minute period in any 60 consecutive minutes.	LAC 33:III.1101.B		
	Chapter 13 - Emission Standards for Particulate Matter	Opacity <= 20%; except emissions may have an average opacity in excess of 20% for not more than one six-minute period in any 60 consecutive minutes.	LAC 33:III.1311.C	All year	
	40 CFR Part 63 Subpart ZZZZ	Operate the engine according to the conditions described in 40 CFR 63.6640(f)(1)-(4)	40 CFR 63.6640(f)		

TABLE 2: STATE AND FEDERAL REQUIREMENTS

**LOOP, LLC - Port Complex
Lafourche Parish, Louisiana**

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
EQT009 - EQT015 & EQT018 - EQT026 Internal Combustion Engines	40 CFR Part 63 Subpart ZZZZ	Requirements that specify monitoring - Monitor how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.	40 CFR 63.6655(f)(2)		
	40 CFR Part 63 Subpart ZZZZ	Requirements that specify records to be kept and record retention time - Keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan.	40 CFR 63.6655(e)		
		Keep records of the hours of operation of the engine that is recorded through the nonresettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.	40 CFR 63.6655(f)(2)		
	40 CFR Part 63 Subpart ZZZZ	Keep records in a form suitable and readily available for expeditions review according to 40 CFR 63.10(b)(1)	40 CFR 63.6660		
		Keep records for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, as specified in 40 CFR 63.10(b)(1)	40 CFR 63.6660		
EQT016 & EQT017 23-88 & 24-88 Gasoline Tanks (Clovally Dome)		Requirements that specify reports to be submitted - None			
		Requirements that specify performance testing - None			
		Requirements that limit emissions or operations - Equip with a submerged fill pipe.	LAC 33:III.2103.B		
	Chapter 21 - Control of 40 CFR 63 Subpart CCCCC NESHAPs for Gasoline Dispensing Facilities	You must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following: (1) minimize gasoline spills; (2) clean up spills as expeditiously as practicable; (3) cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; and (4) minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.	40 CFR 63.11116(a)		
		Compliance date for existing units is January 10, 2011.			

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
EQT016 & EQT017 23-88 & 24-88 Gasoline Tanks (Clovelly Dome)	Chapter 21 - Control of Emission of Organic Compounds	Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.	LAC 33:III.2103.H.3		
	Chapter 21 - Control of Emission of Organic Compounds	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1-7, as applicable.	LAC 33:III.2103.I		
	40 CFR 63 Subpart CCCCC NESHAPs for Gasoline Dispensing Facilities	Make available within 24 hours of a request by the Administrator record of gasoline throughput.	40 CFR 63.11116(b)		
EQT027 - EQT040 and six (6) new tanks Crude Oil Storage Tanks (Clovelly Dome)		Requirements that specify records to be kept and record retention time -			
		None			
		Requirements that specify performance testing -			
		None			
		Requirements that limit emissions or operations -			
	Chapter 21 - Control of Emission of Organic Compounds	Equip with a submerged fill pipe.	LAC 33:III.2103.B		
		Seal closure devices required in LAC 33:III.2103D shall have no visible holes, tears, or other openings in the seals or seal fabric.	LAC 33:III.2103.D.2.a		
	Chapter 21 - Control of Emission of Organic Compounds	Seal closure devices required in LAC 33:III.2103D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.	LAC 33:III.2103.D.2.b		
		Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm ² /0.3m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.	LAC 33:III.2103.D.2.c	All year	
		Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm ² /0.3m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.	LAC 33:III.2103.D.2.d	All year	
		Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.	LAC 33:III.2103.D.2.e		

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
EQT027 - EQT040 and six (6) new tanks Crude Oil Storage Tanks (Clovally Dome)	Chapter 21 - Control of Emission of Organic Compounds	Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90% of the opening. Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H. Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.	LAC 33:III.2103.D.3		
		Except for automatic bleeder vents and rim space vents, each opening in a non contact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90% of the area of the opening.	LAC 33:III.2103.D		
			LAC 33:III.2103.H		
			LAC 33:III.2103.H.3		
	40 CFR Part 60 NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984		40 CFR 60.112b(a)(2)(ii)		

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/Frequency	State Only Requirement
EQT027 - EQT040 and six (6) new tanks Crude Oil Storage Tanks (Clovellly Dome)	40 CFR Part 60 NSPS Subpart Kb	Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except as during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.	40 CFR 60.112b(a)(2)		
		Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4).	40 CFR 60.113b(b)(3)		
		Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal.	40 CFR 60.113b(b)(4)(i)	All year	
		Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal.	40 CFR 60.113b(b)(4)(i)	All year	
		One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 centimeters above the stored liquid surface.	40 CFR 60.113b(b)(4)(i)(A)		
		There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope.	40 CFR 60.113b(b)(4)(i)(B)		
		Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.113b(b)(2)(iii).	40 CFR 60.113b(b)(4)(ii)(A)		
		Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal.	40 CFR 60.113b(b)(4)(ii)(B)	All year	
		Seal gap width $\leq 1.27 \text{ cm}$ for the width of any portion of any gap between the tank wall and the secondary seal.	40 CFR 60.113b(b)(4)(ii)(B)	All year	

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
EQT027 - EQT040 and six (6) new tanks Crude Oil Storage Tanks (Cloveilly Dome)	40 CFR Part 60 NSPS Subpart Kb	There are to be no holes, tears, or other openings in the secondary seal fabric, or seal fabric.	40 CFR 60.113b(b)(4)(ii)(C)		
		Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4)(i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii).	40 CFR 60.113b(b)(4)		
		If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL.	40 CFR 60.113b(b)(6)(i)		
	Requirements that specify monitoring -				
	Chapter 21 - Control of Emission of Organic Compounds	Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.	LAC 33:III.2103.D.2.e	All year	
		Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.	LAC 33:III.2103.D.2.e	All year	
		Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.	LAC 33:III.2103.D.2.e	All year	
	40 CFR Part 60 NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	Seal gap area & width monitored by measurement at the regulations specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter.	40 CFR 60.113b(b)(1)(i)	All year	
		Seal gap area & width monitored by measurement at the regulations specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once year thereafter.	40 CFR 60.113b(b)(1)(ii)	All year	
		Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed.	40 CFR 60.113b(b)(6)	All year	
Requirements that specify records to be kept and record retention time -					
	Chapter 21 - Control of Emission of Organic Compounds	Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2 and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2	LAC 33:III.2103.D.2.e		

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
EQT027 - EQT040 and six (6) new tanks	Chapter 21 - Control of Emission of Organic Compounds	Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.1-1-7, as applicable.	LAC 33:III.2103.1		
Crude Oil Storage Tanks (Clovally Dome)	40 CFR Part 60 NSPS Subpart Kb - Storage Vessels for Petroleum Liquids for Which Construction, or Reconstruction, or Modification Commenced After July 23, 1984	Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain the date of the measurement, the raw data obtained in the measurement, the calculation described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records at least two years.	40 CFR 60.115b(b)(4)		
		Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a).	40 CFR 60.116b(b)		
		VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years.	40 CFR 60.116b(c)		
Requirements that specify reports to be submitted -					
	40 CFR Part 60 NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, or Reconstruction, or Modification Commenced After July 23, 1984	Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present.	40 CFR 60.113b(b)(5)		
		Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(b)(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling.	40 CFR 60.113b(b)(6)(ii)		
		Submit a report to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years.	40 CFR 60.115b(b)(1)		

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
EQT027 - EQT040 and six (6) new tanks Crude Oil Storage Tanks (Clovally Dome)	40 CFR Part 60 NSPS Subpart Kb	Submit a report to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain the date of measurement, the raw data obtained in the measurement, the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years.	40 CFR 60.115b(b)(2)		
		Submit a report to DEQ within 30 days after each seal gap measurement detects gaps exceeding the limitations specified in 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years.	40 CFR 60.115b(b)(4)		
FUG001 10-78 Fugitive Emissions (Clovally Dome)	Requirements that specify performance testing -				
	40 CFR Part 60 NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once year thereafter.	40 CFR 60.113b(b)(1)(ii)	All year	
	Requirements that limit emissions or operations -				
	Chapter 21 - Control of Emission of Organic Compounds	Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.	LAC 33:III.2111		
	Requirements that specify monitoring -				
		None			
	Requirements that specify records to be kept and record retention time -				
		None			
	Requirements that specify reports to be submitted -				
		None			
1-10 520 HP Emergency Generator	Requirements that specify performance testing -				
		None			
	Requirements that limit emissions or operations -				
	Chapter 11 - Control of Emissions of Smoke	Opacity <= 20%, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20% for not more than one six-minute period in any 60 consecutive minutes.	LAC 33:III.1101.B		

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
1-10 520 HP Emergency Generator	Chapter 13 - Emission Standards for Particulate Matter	Opacity <= 20%; except emissions may have an average opacity in excess of 20% for not more than one six-minute period in any 60 consecutive minutes.	LAC 33:III.1311.C	All year	
	NSPS Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	For the purpose of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator. The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) that commence construction after July 11, 2005 where the stationary CI ICE are manufactured after April 1, 2006 and are not fire pump engines.	40 CFR 60.4200(a)(2)(i)		
		Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in 60.4202 for all pollutants, for the same model year and maximum engine power for their 2007 model year and later stationary CI ICE.	40 CFR 60.4205(b)		
		Operate and maintain CI ICE in accordance with approved manufacturer specifications that comply with the applicable emission standards over the lifetime of the engine.	40 CFR 60.4206		
		Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirement of 40 CFR 80.510(b) for nonroad diesel fuel.	40 CFR 60.4207(b)		
		After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.	40 CFR 60.4208(a)		
		Engine must be equipped with a non-resettable hour meter prior to startup of the engine.	40 CFR 60.4209(a)		
		Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. You may only change those settings that are permitted by the manufacturer. You must meet the requirements of 40 CFR parts 89, 94, and/or 1068, as they apply to you.	40 CFR 60.4211(a)		

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
1-10 520 HP Emergency Generator	40 CFR 60 NSPS Subpart IIII	If you are an owner or operator of a 2007 model year and later CI internal combustion engine and must comply with the emission standards specified in 60.4205(b), you must comply by purchasing an engine certified to the emission standards in 60.4205(b), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.	40 CFR 60.4211(c)		
		Emergency stationary ICE may be operated for the purposes of maintenance checks and readiness testing (limited to 100 hours/yr), provided the tests are recommended by Federal, State, or Local government, the manufacturer, the vendor, or the insurance company associated with the engine. LOOP may petition for more than 100 hrs/yr limit. Any operation of this engine other than emergency operation and maintenance and testing as permitted in this section is prohibited.	40 CFR 60.4211(e)		
	40 CFR 63 Subpart ZZZZ	Comply with 40 CFR 63 Subpart ZZZZ by complying with 40 CFR 60 IIII.	40 CFR 63.6590(c)		
	RICE MACT				
	Part 80 - Regulation of Fuels and Fuel Additives	As referenced in 40 CFR 60.4207(b), diesel fuel is subject to the following per-gallon standards: sulfur content of 15 ppm maximum for NR diesel fuel or 500 ppm for LM diesel fuel and a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.	40 CFR 80.510(b)		
	Requirements that specify monitoring -				
		None			
	Requirements that specify records to be kept and record retention time -				
		None			
	Requirements that specify reports to be submitted -				
	NSPS Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	Emergency CI ICE are not required to submit an initial notification of applicability to this subpart.	40 CFR 60.4214(b)		
	Requirements that specify performance testing -				
		None			

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
GRP003 Tank Cap		Requirements that limit emissions or operations -			
	Chapter 5 - Permit Procedures	VOC emissions <= 175.28 tpy. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total emissions from crude oil storage tanks exceeds the maximum listed in this specific condition for any twelve consecutive month period.	LAC 33:III.501.C.6		
		Requirements that specify monitoring -			
		None			
		Requirements that specify records to be kept and record retention time -			
GRP004 Entire Facility	Chapter 5 - Permit Procedures	Emissions recordkeeping by electronic or hard copy monthly. Keep records of total emissions from crude oil storage tanks each month, as well as emissions for the last twelve months. Make records available for inspection by DEQ personnel.	LAC 33:III.501.C.6		
		Requirements that specify reports to be submitted -			
	Chapter 5 - Permit Procedures	Submit report annually by the 31st of March. Report the total emissions from crude oil storage tanks for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.	LAC 33:III.501.C.6		
		Requirements that specify performance testing -			
		None			
		Requirements that limit emissions or operations -			
	Chapter 13 - Emission Standards for Particulate Matter	Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.	LAC 33:III.1303.B		
	Chapter 21 - Control of Emission of Organic Compounds	Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.	LAC 33:III.2113.A		
	Chapter 2 - Rules and Regulations for the Fee System of the Air Quality Control Program	Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.	LAC 33:III.219		
	Chapter 56 - Prevention of Air Pollution Emergency Episodes	During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.	LAC 33:III.5611.B		

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
GRP004 Entire Facility	40 CFR Part 60 Subpart A - General Provisions	All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A	40 CFR 60		
	40 CFR Part 63 Subpart A - General Provisions	All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A	40 CFR 63		
		Requirements that specify monitoring -			
		None			
		Requirements that specify records to be kept and record retention time -			
GRP004 Entire Facility		None			
		Requirements that specify reports to be submitted -			
	Chapter 9 - General Regulations of Control of Emissions and Emission Standards	Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.	LAC 33:III.919.D		
	Chapter 56 - Prevention of Air Pollution Emergency Episodes	Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority.	LAC 33:III.5611.A		
		Requirements that specify performance testing -			
GRP004 Entire Facility	40 CFR 70 Title V Permitting Program	Submit Title V permit application for renewal 180 calendar days before permit expiration date. Submit Title V monitoring results report semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted.	40 CFR 70.5(a)(1)(iii) 40 CFR 70.6(a)(1)(iii)(A)		

TABLE 2: STATE AND FEDERAL REQUIREMENTS
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Applicable Requirement	Compliance Method/Provision	Compliance Citation	Averaging Period/ Frequency	State Only Requirement
GRP004 Entire Facility	40 CFR 70 Title V Permitting Program	<p>Submit Title V excess emissions report semi-annually, by September 30, and March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report.</p> <p>Submit Title V compliance certification annually, by March 31st to the Office of Environmental Compliance, Surveillance Division.</p>	40 CFR 70.6(a)(1)(iii)(B)		

TABLE 3: EXPLANATION FOR EXEMPTION STATUS OR NON-APPLICABILITY OF A SOURCE
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Emission Point ID No.:	Requirement	Exempt or Does Not Apply	Explanation	Citation Providing for Exemption or Non-applicability
EQT004 5-76 Slop Oil Tank (Small Boat Harbor)	Storage of Volatile Organic Compounds LAC 33:III.2103.B Subpart Ka—Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	Does Not Apply	Tank 5-78 has a capacity > 40,000 and stores wastewater and lube oils with typ < 1.5 psia. Tank 5-78 contains primarily wastewater and lube oils associated with cleaning equipment and, therefore, does not meet the definition of Petroleum Liquid.	LAC 33:III.2103.B 40 CFR Part 60.111a
EQT008 and EQT008 11-78 & 13-78 Fourchon Booster Station No. 2 Tank No. 1 & No. 2	Storage of Volatile Organic Compounds LAC 33:III.2103.B Subpart Ka—Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	Does Not Apply	Tanks 11-78 and 13-78 have capacities > 40,000 and store diesel with typ < 1.5 psia. Tanks 11-78 and 13-78 have capacities > 40,000 and store diesel, which does not meet the definition of "petroleum liquids" as provided in 60.111a and, therefore, is not applicable.	LAC 33:III.2103.B 40 CFR Part 60.111a
EQT009, EQT011, EQT013, EQT015, EQT021 - EQT028 Emergency Generator Engines	NSPS for CI-ICE - 40 CFR 60 Subpart IIII	Does Not Apply	Engines were manufactured prior to applicability date of April 1, 2006. Additionally, the engines have not been modified or reconstructed after July 11, 2005.	40 CFR 60.4200(a)
EQT010, EQT012, EQT014, EQT018, EQT019, and EQT020 Fire Pump Engines	NSPS for CI-ICE - 40 CFR 60 Subpart IIII	Does Not Apply	Engines were manufactured prior to applicability date of July 1, 2006 (NFPA, firewater pumps). Additionally, the engines have not been modified or reconstructed after July 11, 2005.	40 CFR 60.4200(a)
EQT016 and EQT017 23-88 & 24-88 Gasoline Tanks	Subpart Kb-Volatile Organic Liquid Storage Vessels (Including Petroleum Liquids) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	Does Not Apply	Tanks 23-88 and 24-88 each have a capacity of 1,000 gallons and, therefore, are not subject to Subpart Kb.	40 CFR 60.110b
LOOP LLC Port Complex	Comprehensive Toxic Air Pollutant Emission Control Program LAC 33:III.Chapter 51 Chemical Accident Prevention - LAC 33:III.Chapter 59	Does Not Apply	The LOOP Complex is not a major source of toxic air pollutants.	LAC 33:III.5101.A
	Chemical Accident Prevention - LAC 33:III.Chapter 59	Does Not Apply	Applicant does not have on site any of the listed toxic materials in amounts greater than the threshold quantities of this program.	LAC 33:III.Chapter 59
	Chemical Accident Prevention Provisions 40 CFR 68	Does Not Apply	Applicant does not have on site any of the listed toxic materials in amounts greater than the threshold quantities of this program.	40 CFR 68

TABLE 4: EQUIPMENT LIST
LOOP, LLC - Port Complex
Lafourche Parish, Louisiana

Enter each single emission point that routes its emissions to another source (i.e., a control device) or a common stack, or is part of an Emissions Cap. List the emissions source to which each single emission point is routed or the Cap of which the source is a member, if applicable. Consult instructions.

Emission Point ID No:	Description	Construction Date	Routes to:	Operating Rate/Volume	Applicable Requirement(s)?
	9 Salt Dome Cavities, Associated Piping, Pumps, and Brine Storage Reservoir		Clovelly Dome 9 Salt Dome Cavities (12-78)	600 MM bbl/yr	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
EQT027	1-99 Tank 6401 (Clovelly Dome)	January 2000	Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT028	2-99 Tank 6402 (Clovelly Dome)	January 2000	Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT029	3-99 Tank 6405 (Clovelly Dome)	January 2000	Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT030	4-99 Tank 6406 (Clovelly Dome)	January 2000	Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT031	6-02 Tank 6409 (Clovelly Dome)	March 2000	Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT032	7-02 Tank 6410 (Clovelly Dome)	March 2000	Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT033	8-07 Tank 6403 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT034	9-07 Tank 6404 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT035	10-07 Tank 6407 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT036	11-07 Tank 6408 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT037	12-07 Tank 6411 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT038	13-07 Tank 6412 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT039	14-07 Tank 6413 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EQT040	15-07 Tank 6414 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NEW	16-10 Tank 6415 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NEW	17-10 Tank 6416 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NEW	18-10 Tank 6417 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NEW	19-10 Tank 6418 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NEW	20-10 Tank 6419 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NEW	21-10 Tank 6420 (Clovelly Dome)		Tank CAP (GRP003)	600,000 bbl	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

24. Emissions Inventory Questionnaire (EIQ) Forms [LAC 33:III.517.D.3; 517.D.6]

Complete one (1) EIQ for:

- Each emission source. If two emission sources have a common stack, the applicant may submit one EIQ sheet for the common emissions point. Note any emissions sources that route to this common point in Table 4 of the application.
- Each emissions CAP that is proposed. In general, this applies to each source that is part of the CAP.
- Each alternate operating scenario that a source may operate under. Some common scenarios are:
 1. Sources that combust multiple fuels
 2. Sources that have Startup/Shutdown max lb/hr emission rates higher than the max lb/hr for normal operating conditions would need an EIQ for the Startup/Shutdown emission rates for those sources
- Fugitive emissions releases. One (1) EIQ should be completed for each of the following types of fugitive emissions sources or emissions points:
 1. Equipment leaks.
 2. Non-equipment leaks (i.e. road dust, settling ponds, etc).

For each EIQ:

- Fill in all requested information.
- Speciate all Toxic Air Pollutants and Hazardous Air Pollutants emitted by the source.
- Use appropriate significant figures.
- Consult instructions.

The EIQ is in Microsoft Word Excel. Click on this link to get to the EIQ form.

http://www.deq.louisiana.gov/portal/LinkClick.aspx?link=permits%2fair%2f6-6-07_EIQ.xls&tabid=2758

See Section 3.0

25. NSR Applicability Summary [LAC 33:III.504 and LAC 33:III.509] ☒ N/A

This section consists of five tables, A-E, and is applicable only to new and existing major stationary sources (as defined in LAC 33:III.504 or in LAC 33:III.509) proposing to permit a physical change or change in the method of operation. It would also apply to existing minor stationary sources proposing a physical change or change in the method of operation where the change would be a major source in and of itself. Add rows to each table as necessary. Provide a written explanation of the information summarized in these tables. Consult instructions.

25.A. Project Summary

Emission Point ID	Description	A New, Modified, or Affected, or Unaffected*	B Pre-Project Allowables (TPY)	C Baseline Actual Emissions (over 24-month period)	D Projected Actual Emissions (TPY)	E Post-Project Potential to Emit (TPY)	F Change
PM ₁₀	24-Month Period: MM/DD/YYYY – MM/DD/YYYY						
						PM ₁₀ Change:	
SO ₂	24-Month Period: MM/DD/YYYY – MM/DD/YYYY						
						SO ₂ Change:	
NO _x	24-Month Period: MM/DD/YYYY – MM/DD/YYYY						
						NO _x Change:	
CO	24-Month Period: MM/DD/YYYY – MM/DD/YYYY						
						CO Change:	

VOC	24-Month Period: MM/DD/YYYY – MM/DD/YYYY			
				VOC Change:

• Unaffected emissions units are not required to be listed individually. By choosing not to list unaffected emissions units, the applicant asserts that all emissions units not listed in Table 24.A will not be modified or experience an increase in actual annual emissions as part of the proposed project.

25.B. Creditable Contemporaneous Changes

Contemporaneous Period: MM/DD/YYYY – MM/DD/YYYY					
Emission Point ID	Description	A Date of Modification	B Pre-Project Allowables (TPY)	C Baseline Actual Emissions (over 24-month period)	D 24-Month Period
E					
Post-Project Potential to Emit (TPY)					
F Change					
PM ₁₀					
					PM ₁₀ Change:
SO ₂					
					SO ₂ Change:
NO _x					

25.B. Creditable Contemporaneous Changes

				NO _x Change:	
CO					
				CO Change:	
VOC					
				VOC Change:	

25.C. BACT/LAER Summary

For each source identified as "New" or "Modified" in Section 24.A, complete the following table for each pollutant that will trigger NSR. If LAER is not required per LAC 33:III.504.D.3, indicate such.

Emission Point ID	Pollutant	BACT/LAER	Limitation	Averaging Period	Description of Control Technology/Work Practice Standard(s)

25.D. PSD Air Quality Analyses Summary

Pollutant	Averaging Period	A Preliminary Screening Concentration ($\mu\text{g}/\text{m}^3$)	B Level of Significant Impact ($\mu\text{g}/\text{m}^3$)	C Significant Monitoring Concentration ($\mu\text{g}/\text{m}^3$)	D At the Monitoring Station		F Background ($\mu\text{g}/\text{m}^3$)	G Maximum Modeled Concentration ($\mu\text{g}/\text{m}^3$)	H Modeled + Background Concentration ($\mu\text{g}/\text{m}^3$)	I NAAQS ($\mu\text{g}/\text{m}^3$)	J Modeled PSD Increment Consumption ($\mu\text{g}/\text{m}^3$)	K Allowable Class II PSD Increment ($\mu\text{g}/\text{m}^3$)
					Monitored Values ($\mu\text{g}/\text{m}^3$)	Modeling Results ($\mu\text{g}/\text{m}^3$)						
PM ₁₀	24-hour		5	10						150		30
	Annual		1	-						50		17
SO ₂	3-hour		25	-						1300		512
	24-hour		5	13						365		91
	Annual		1	-						80		20
NO _x	Annual		1	14						100		25
	1-hour		2000	-						40,000	-	-
CO	8-hour		500	575						10,000	-	-
	3-month		-	0.1						1.5	-	-
NR = Not required.												

25.E Nonattainment New Source Review Offsets [LAC 33:III.517.D.16, LAC 33:III.504.D.4 & 5] ☒ N/A

Complete this section only if the proposed project triggers Nonattainment New Source Review (NNSR).

This project triggers NNSR review for: ☐ NO_x ☐ VOC

NO_x:

Is the applicant proposing to use internal offsets? ☐ Yes ☐ No

If not, identify the source of the offsets. **Company:** _____

Facility/Unit: _____

Permit No.: _____

Is an ERC Bank Application included with this application, or has an application already been submitted to LDEQ?

☐ Yes ☐ No

If the ERC application has already been submitted, give the date: _____

Identify the emissions units from which the offsets will be obtained (reference specific Emission Point ID numbers).

VOC:

Is the applicant proposing to use internal offsets? ☐ Yes ☐ No

If not, identify the source of the offsets. **Company:** _____

Facility/Unit: _____

Permit No.: _____

Is an ERC Bank Application included with this application, or has an application already been submitted to LDEQ?

☐ Yes ☐ No

If the ERC application has already been submitted, give the date: _____

Identify the emissions units from which the offsets will be obtained (reference specific Emission Point ID numbers).

In order to expedite processing, please be sure the ERC Bank Application is completed properly. In the case of NO_x, the document should clearly differentiate between ozone season and non-ozone season actual emissions during the baseline period. Regarding NO_x and VOC, be sure to indicate if a portion of the reductions are no longer surplus (e.g., due to new or revised federal or state regulations, use in a netting analysis, etc.).

25.F. Economic Impact

Answer the following questions.

How many temporary jobs will be added as a result of this project? _____

How many permanent jobs will be added as a result of this project?

25.G Notification of Federal Land Manager [LAC 33:III.504.E.1, LAC 33:III.509.P.1]

Complete this section only if the proposed project triggers NNSR or PSD.

- a. Is the proposed facility or modification located within 100 kilometers of a Class I Area? ☐ Yes ☐ No
If Yes, determination of Q/d is not required; skip to the next question. If No, complete the Q/d equation below:

$$Q/d = \frac{PM_{10(NEI)} + SO_{2(NEI)} + NO_{X(NEI)} + H_2SO_{4(NEI)}}{\text{Class I km}}$$

where:

$PM_{10(NEI)}$	= net emissions increase of $PM_{10}^{1,2}$
$SO_{2(NEI)}$	= net emissions increase of $SO_2^{1,2}$
$NO_{X(NEI)}$	= net emissions increase of $NO_X^{1,2}$
$H_2SO_{4(NEI)}$	= net emissions increase of $H_2SO_4^{1,2}$
Class I km	= distance to nearest Class I Area ³

$$Q/d = \frac{\quad + \quad + \quad + \quad}{\quad} = \quad$$

If $Q/D < 4$, proceed to Section 26. If $Q/D \geq 4$, complete the remainder of this Section.

- b. Has the applicant provided a copy of the application to the Federal Land Manager? ☐ Yes ☐ No
- c. Does the application contain modeling that demonstrates no adverse impact on Air Quality Related Values (AQRVs) in the Class I Area? ☐ Yes ☐ No
- d. If Yes, indicate the model used: ☐ VISCREEN ☐ PLUVUE II ☐ CALPUFF ☐ Other:⁴ _____
- e. Has the Federal Land Manager concurred that the proposed project will not adversely impact any AQRVs?
☐ Yes ☐ No If Yes, please attach correspondence.

¹If the net emissions increase of any pollutant is negative, enter "0."

²If the project did not trigger a netting analysis, use the project increase. In this case, the value will be less than the pollutant's significance level.

³In kilometers.

⁴Model must be approved by LDEQ and the Federal Land Manager.

26. Environmental Assessment Statement (EAS or "IT" Question Responses)

[La. R.S. 30:2018] ☒ Yes ☐ No

**** This section is required when applying for new Part 70 operating permits and/or major modifications. Any applications for these permit types that do not include answers to these questions will not be considered to be administratively complete. ** See Appendix C**

For new Part 70 operating permits and/or major modifications, answers to these questions must be provided by the applicant to the local governmental authority and the designated public library at no additional costs to these entities. Consult instructions to determine what is considered to be a "local governmental authority" and a "designated public library". Indicate the name and address of the local governmental authority and the designated public library to which the answers to these questions were sent:

Name of Local Governing Authority			Name of Designated Public Library		
Lafourche Parish Council District 9			Lafourche Parish Public Library – Golden Meadow Branch		
Street or P.O. Box			Street or P.O. Box		
PO Box 183			1403 North Bayou Drive		
City	State	ZIP	City	State	ZIP
Golden Meadow	LA	70357	Golden Meadow	LA	70357-2513

Answer the following five questions on separate pages using full and complete answers. Include as many pages as necessary in order to provide full and complete answers. This information is required per Louisiana Revised Statutes 30:2018 (La. R.S. 30:2018).

Question 1: Have the potential and real adverse environmental effects of the proposed facility been avoided to the maximum extent possible? (This question requires the permittee to identify adverse environmental effects, both potential and real.)

Question 2: Does a cost benefit analysis of the environmental impact costs balanced against the social and economic benefits of the proposed facility demonstrate that the latter outweighs the former? (This question requires the permittee to perform a cost-benefit analysis, or at least a quantitative indication of the economic benefits and a qualitative description of the negative impacts expected from the permittee's operation. The latter should come from the answer to Question 1.)

Question 3: Are there alternative projects which would offer more protection to the environment than the proposed facility without unduly curtailing non-environmental benefits? (This question requires the permittee to demonstrate having considered alternate technologies.)

Question 4: Are there alternative sites which would offer more protection to the environment than the proposed facility site without unduly curtailing non-environmental benefits? (This is the question that deals directly with siting criteria.)

Question 5: Are there mitigating measures which would offer more protection to the environment than the facility as proposed without unduly curtailing non-environmental benefits? (This question requires the permittee to demonstrate having considered the most stringent techniques for reducing or more efficiently handling waste.)

SECTION 3.0

**EMISSIONS INVENTORY QUESTIONNAIRE FOR AIR
POLLUTANTS**

State of Louisiana										Date of submittal																																																																																																																															
Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Dec 2010																																																																																																																															
LOOP, LLC Port Complex - Lafourche Parish																																																																																																																																									
Emission Point ID No. (Alternate ID)		Descriptive Name of the Emissions Source (Alt. Name)				Approximate Location of Stack or Vent (see instructions)				Datum NAD27																																																																																																																															
		Crude Oil Storage Tank CAP (Clovelly Dome)				27 "Unknown"				3263500 mN																																																																																																																															
Tempo Subject Item ID No.		Diameter (ft) or Stack Discharge Area (ft ²)		Height of Stack Above Grade (ft)	Stack Gas Exit Velocity ft/sec	Stack Gas Flow at Conditions, not at Standard (ft ³ /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)	Date of Construction or Modification	Percent of Annual Throughput Through This Emission Point																																																																																																																															
GRP003		n/a ft		n/a ft	n/a ft/sec	n/a ft ³ /min	n/a °F	8,760 hr/yr		Jan-Mar 25%	Apr-Jun 25%																																																																																																																														
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<div style="border: 1px solid black; padding: 5px;"> Notes Tank Cap consists of point sources EQT027 - EQT040, plus new tanks (6). </div>																																																																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">Air Pollutant Specific Information</th> <th colspan="2">Proposed Emission Rates</th> <th colspan="2">Permitted Emission Rate (Current)</th> <th colspan="2">Add, Change, Delete, or Unchanged</th> <th colspan="2">Continuous Compliance Method</th> <th colspan="2">Concentration in Gases Exiting at Stack</th> </tr> <tr> <th>Emission Point ID No. (Alternate ID)</th> <th>Control Equipment Code</th> <th>Control Equipment Efficiency</th> <th>HAAP / TAP CAS Number</th> <th>Average (lb/hr)</th> <th>Maximum (lbs/hr)</th> <th>Annual (tons/yr)</th> <th>Annual (tons/yr)</th> <th>Annual (tons/yr)</th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Total VOC (including those listed below)</td> <td></td> <td></td> <td></td> <td>40.02</td> <td></td> <td>175.28</td> <td>88.39</td> <td>C</td> <td></td> <td></td> <td></td> <td></td> <td>ppm by vol</td> </tr> <tr> <td>Benzene</td> <td></td> <td></td> <td>00071-43-2</td> <td>0.23</td> <td></td> <td>1.03</td> <td>0.890</td> <td>C</td> <td></td> <td></td> <td></td> <td></td> <td>ppm by vol</td> </tr> <tr> <td>Cumene</td> <td></td> <td></td> <td>00098-82-8</td> <td><0.01</td> <td></td> <td>0.02</td> <td>0.021</td> <td>U</td> <td></td> <td></td> <td></td> <td></td> <td>ppm by vol</td> </tr> <tr> <td>Ethyl benzene</td> <td></td> <td></td> <td>00100-41-4</td> <td>0.03</td> <td></td> <td>0.11</td> <td>0.112</td> <td>C</td> <td></td> <td></td> <td></td> <td></td> <td>ppm by vol</td> </tr> <tr> <td>n-Hexane</td> <td></td> <td></td> <td>00110-54-3</td> <td>0.25</td> <td></td> <td>1.07</td> <td>0.920</td> <td>C</td> <td></td> <td></td> <td></td> <td></td> <td>ppm by vol</td> </tr> <tr> <td>Toluene</td> <td></td> <td></td> <td>00108-88-3</td> <td>0.13</td> <td></td> <td>0.58</td> <td>0.539</td> <td>C</td> <td></td> <td></td> <td></td> <td></td> <td>ppm by vol</td> </tr> <tr> <td>Xylene (mixed isomers)</td> <td></td> <td></td> <td>N/A</td> <td>0.08</td> <td></td> <td>0.35</td> <td>0.364</td> <td>C</td> <td></td> <td></td> <td></td> <td></td> <td>ppm by vol</td> </tr> </tbody> </table>												Air Pollutant Specific Information				Proposed Emission Rates		Permitted Emission Rate (Current)		Add, Change, Delete, or Unchanged		Continuous Compliance Method		Concentration in Gases Exiting at Stack		Emission Point ID No. (Alternate ID)	Control Equipment Code	Control Equipment Efficiency	HAAP / TAP CAS Number	Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Annual (tons/yr)						Total VOC (including those listed below)				40.02		175.28	88.39	C					ppm by vol	Benzene			00071-43-2	0.23		1.03	0.890	C					ppm by vol	Cumene			00098-82-8	<0.01		0.02	0.021	U					ppm by vol	Ethyl benzene			00100-41-4	0.03		0.11	0.112	C					ppm by vol	n-Hexane			00110-54-3	0.25		1.07	0.920	C					ppm by vol	Toluene			00108-88-3	0.13		0.58	0.539	C					ppm by vol	Xylene (mixed isomers)			N/A	0.08		0.35	0.364	C					ppm by vol
Air Pollutant Specific Information				Proposed Emission Rates		Permitted Emission Rate (Current)		Add, Change, Delete, or Unchanged		Continuous Compliance Method		Concentration in Gases Exiting at Stack																																																																																																																													
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 LOOP, LLC Port Complex - Lafourche Parish

Emission Point ID No. (Alternate ID) 1-99		Descriptive Name of the Emissions Source (Alt. Name) Tank 6401 (Clovelly Dome)		Approximate Location of Stack or Vent (see instructions) Datum NAD27 3261267 mN 60 hundredths 97 hundredths		Date of submittal Dec 2010	
Tempo Subject Item ID No. EQ1027		Method UTM Zone 29 15 764302 mE 10 29 90 16 29		Horizontal 27 10 29 16 29		Vertical 10 29 16 29	
Stack and Discharge Physical Characteristics Change? (yes or no) no		Diameter (ft) or Stack Discharge Area (ft²) n/a ft ft²		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Flow at Conditions, not at Standard (ft³/min) n/a ft³/min	
		Height of Stack Above Grade (ft) n/a ft		Stack Gas Exit Temperature (°F) n/a °F		Normal Operating Time (hours per year) 8,760 hr/yr	
		Date of Construction or Modification Jan 2000		Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%			
Operating Parameters (include units)							
Fuel a b c		Type of Fuel Used and Heat Input (see instructions) Type of Fuel n/a Heat Input (MMBTU/hr)		Parameter Normal Operating Rate/Throughput Maximum Operating Rate/Throughput Design Capacity/Volume Shell Height (ft) Tank Diameter (ft)		Description bbl feet	
Notes Under CAP, Revised for RVP 8.							
Air Pollutant Specific Information							
Emission Point ID No. (Alternate ID) 1-99		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number	
Pollutant		Proposed Emission Rates Average (lb/hr) Maximum (lbs/hr) Annual (tons/yr)		Permitted Emission Rate (Current) Annual (tons/yr)		Add, Change, Delete, or Unchanged	
Total VOC (including those listed below)		5252.21 30.66 0.23 2.03 14.93 5.95 32.94		Capped Capped Capped Capped Capped Capped Capped		C C C C C C C	
Benzene		00071-43-2		Capped		ppm by vol	
Cumene		00098-82-8		Capped		ppm by vol	
Ethyl benzene		00100-41-4		Capped		ppm by vol	
Toluene		00108-88-3		Capped		ppm by vol	
Xylene (mixed isomers)		#N/A		Capped		ppm by vol	
n-Hexane		00110-54-3		Capped		ppm by vol	

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Date of submittal Dec 2010									
Emission Point ID No. (Alternate ID) 2-99		Descriptive Name of the Emissions Source (Alt. Name) Tank 6402 (Clovelly Dome)							
Tempo Subject Item ID No. EQ1028		Approximate Location of Stack or Vent (see instructions) Method: 27, "Unknown" Datum: NAD27 UTM Zone: 15 Horizontal: 764302 mE Vertical: 3261267 mN Latitude: 29° 16' 10" Longitude: 90° 16' 29"							
Stack and Discharge Physical Characteristics Change? (yes or no) no		Diameter (ft) or Stack Discharge Area (ft²) n/a ft n/a ft²		Height of Stack Above Grade (ft) n/a ft		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Flow at Conditions, not at Standard (ft³/min) n/a ft³/min	
						Stack Gas Exit Temperature (°F) n/a °F		Normal Operating Time (hours per year) 8,760 hr/yr	
						Date of Construction or Modification Jan 2000		Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Type of Fuel Used and Heat Input (see instructions) Fuel: a n/a b n/a c n/a Heat Input (MMBTU/hr)									
Notes Under CAP, Revised for RVP 8.									
Operating Parameters (include units) Parameter: Normal Operating Rate/Throughput Maximum Operating Rate/Throughput Design Capacity/Volume Shell Height (ft) Tank Diameter (ft)									
Description: bbl feet									
Air Pollutant Specific Information Emission Point ID No. (Alternate ID): 2-99									
Pollutant		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number		Proposed Emission Rates Average (lb/hr) Maximum (lb/hr) Annual (tons/yr)	
Total VOC (including those listed below)								Permitted Emission Rate (Current) Annual (tons/yr) Capped	
Benzene						00071-43-2		Capped C	
Cumene						00098-82-8		Capped C	
Ethyl benzene						00100-41-4		Capped C	
Toluene						00108-88-3		Capped C	
Xylene (mixed isomers)						#N/A		Capped C	
n-Hexane						00110-54-3		Capped C	
								Concentration in Gases Exiting at Stack ppm by vol ppm by vol ppm by vol ppm by vol ppm by vol ppm by vol	

Date of submittal	Dec 2010
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Dec | 2010
Date of submittal

Datum NAD27	
3261267 mN	
60 hundredths	
97 hundredths	
Percent of Annual throughput Through This Emission Point	
Apr. Jun 25%	Jul. Sep 25%
Oct. Dec 25%	
description	
bbl	
feet	
<input type="checkbox"/> Internal	

[illegible]

Emissions Inventory Questionnaire (EIQ) for Air Pollutants

LOOP, LLC Port Complex - Lafourche Parish

Emission Point ID No. (Alternate ID) 6-02		Descriptive Name of the Emissions Source (Alt. Name) Tank 6409 (Clovellly Dome)			Approximate Location of Stack or Vent (see instructions) Method UTM Zone 29 ° 15 Horizontal 764302 mE Vertical 3261267 mN Datum NAD27 Latitude 29 ° 16 ' 10 " 29 ° Longitude 90 ° 16 ' 29 "						
Tempo Subject Item ID No. EQ031		Stack and Discharge Physical Characteristics Change? (yes or no) no		Diameter (ft) or Stack Discharge Area (ft ²) n/a ft n ²	Height of Stack Above Grade (ft) n/a ft	Stack Gas Exit Velocity n/a ft/sec	Stack Gas Flow at Conditions, ngl at Standard (ft ³ /min) n/a ft ³ /min	Stack Gas Exit Temperature (°F) n/a °F	Normal Operating Time (hours per year) 8,760 hr/yr	Date of Construction or Modification Mar 2000 constructed	Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%
Fuel		Type of Fuel Used and Heat Input (see instructions)			Operating Parameters (include units)						
a		Type of Fuel n/a			Heat Input (MMBTU/hr)			Parameter Description			
b								Normal Operating Rate/Throughput			
c								Maximum Operating Rate/Throughput			
								Design Capacity/Volume			
								Shell Height (ft)			
								Tank Diameter (ft)			
		Notes Under CAP, Revised for RVP 8.						Floating Roof <input type="checkbox"/> Fixed Roof <input type="checkbox"/> External <input type="checkbox"/> Internal <input type="checkbox"/>			
Air Pollutant Specific Information											
Emission Point ID No. (Alternate ID) 6-02		Control Equipment Code	Control Equipment Efficiency	IIAP/TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
Pollutant					Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)			ppm by vol
Total VOC (including those listed below)						5252.21		Capped	C		ppm by vol
Benzene				00071-43-2		30.66		Capped	C		ppm by vol
Cumene				00098-82-8		0.23		Capped	C		ppm by vol
Ethyl benzene				00100-41-4		2.03		Capped	C		ppm by vol
Toluene				00108-88-3		14.93		Capped	C		ppm by vol
Xylene (mixed isomers)				#N/A		5.95		Capped	C		ppm by vol
n-Hexane				00110-54-3		32.94		Capped	C		ppm by vol

Emissions Inventory Questionnaire (EIQ) for Air Pollutants

Emissions Inventory Questionnaire (EIQ) for Air Pollutants

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Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Dec 2010																											
LOOP, LLC Port Complex - Lafourche Parish																																					
Emission Point ID No. (Alternate ID) 8-07		Descriptive Name of the Emissions Source (Alt. Name) Tank 6403 (Clovelly Dome)				Approximate Location of Stack or Vent (see instructions)																															
Tempo Subject Item ID No. EQ033		Diameter (ft) or Stack Discharge Area (ft ²) n/a ft n/a ft ²		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Exit Temperature (°F) n/a °F		Normal Operating Time (hours per year) 8,760 hr/yr		Date of Construction or Modification constructed																											
Stack and Discharge Physical Characteristics Change? (yes or no) no		Height of Stack Above Grade (ft) n/a ft		Stack Gas Flow at Conditions, not at Standard (ft ³ /min) n/a ft ³ /min		Stack Gas Exit Temperature (°F) n/a °F		Normal Operating Time (hours per year) 8,760 hr/yr		Percent of Annual Throughput Through This Emission Point																											
										<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Jan-Mar</td> <td>25%</td> <td>Apr-Jun</td> <td>25%</td> <td>Jul-Sep</td> <td>25%</td> <td>Oct-Dec</td> <td>25%</td> </tr> </table>		Jan-Mar	25%	Apr-Jun	25%	Jul-Sep	25%	Oct-Dec	25%																		
Jan-Mar	25%	Apr-Jun	25%	Jul-Sep	25%	Oct-Dec	25%																														
Operating Parameters (include units)																																					
Fuel		Type of Fuel		Heat Input (MMBTU/hr)		Normal Operating Rate/Throughput		Maximum Operating Rate/Throughput		Design Capacity/Volume																											
		n/a								bbl																											
										feet																											
Notes																																					
Under CAP, Revised for RVP 8.																																					
Air Pollutant Specific Information																																					
Emission Point ID No. (Alternate ID) 8-07		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate (Current)																											
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Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)																																			
	5252.21	Capped																																			
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	32.94	Capped																																			
Pollutant										Concentration in Gases Exiting at Stack																											
Total VOC (including those listed below)										ppm by vol																											
Benzene										ppm by vol																											
Cumene										ppm by vol																											
Ethyl benzene										ppm by vol																											
Toluene										ppm by vol																											
Xylene (mixed isomers)										ppm by vol																											
n-Hexane										ppm by vol																											

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Emission Point ID No. (Alternate ID) 9-07		Descriptive Name of the Emissions Source (Alt. Name) Tank 6404 (Cloveley Dome)		Approximate Location of Stack or Vent (see instructions)							
				Method UTM Zone		27, "Unknown"		Datum NAD27			
				Horizontal		15		Vertical			
				Latitude		29 °		mE			
				Longitude		90 °		10 "			
						27 "		16 "			
						29 °		29 "			
						97		hundreds			
						97		hundredths			
Tempo Subject Item ID No. EQT034		Stack and Discharge Physical Characteristics Change? (yes or no) no		Diameter (ft) or Stack Discharge Area (ft ²) n/a ft n/a ft ²	Height of Stack Above Grade (ft) n/a ft	Stack Gas Exit Velocity n/a ft/sec	Stack Gas Flow at Conditions, gpl at Standard (ft ³ /min) n/a ft ³ /min	Stack Gas Exit Temperature (°F) n/a °F	Normal Operating Time (hours per year) 8,760 hr/yr	Date of Construction or Modification constructed	Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%
Fuel	Type of Fuel Used and Heat Input (see instructions)	Operating Parameters (include units)									
a	Type of Fuel n/a	Parameter									
b		Normal Operating Rate/Throughput									
c		Maximum Operating Rate/Throughput									
		Design Capacity/Volume									
		Shell Height (ft)									
		Tank Diameter (ft)									
		310									
		feet									
Notes Under CAP; Revised for RVP 8.		<input type="checkbox"/> Floating Roof		<input checked="" type="checkbox"/> Fixed Roof		<input type="checkbox"/> External		<input type="checkbox"/> Internal			
Air Pollutant Specific Information											
Emission Point ID No. (Alternate ID) 9-07	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates		Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack		
Pollutant				Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Capped	ppm by vol		
Total VOC (including those listed below)					5252.21			Capped	ppm by vol		
Benzene			00071-43-2		30.66			Capped	ppm by vol		
Cumene			00098-82-8		0.23			Capped	ppm by vol		
Ethyl benzene			00100-41-4		2.03			Capped	ppm by vol		
Toluene			00108-88-3		14.93			Capped	ppm by vol		
Xylene (mixed isomers)			#N/A		5.95			Capped	ppm by vol		
n-Hexane			00110-54-3		32.94			Capped	ppm by vol		

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Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Dec 2010	
LOOP, LLC Port Complex - Lafourche Parish											
Emission Point ID No. (Alternate ID) 10-07		Descriptive Name of the Emissions Source (Alt. Name) Tank 6407 (Clovelly Dome)				Approximate Location of Stack or Vent (see instructions)					
Tempo Subject Item ID No. EQ1035		Diameter (ft) or Stack Discharge Area (ft ²) n/a ft n ²		Height of Stack Above Grade (ft) n/a ft	Stack Gas Exit Velocity ft/sec n/a	Stack Gas Flow at Conditions, not at Standard (ft ³ /min) n/a ft ³ /min	Stack Gas Exit Temperature (°F) n/a °F	Normal Operating Time (hours per year) 8,760 hr/yr	Date of Construction or Modification constructed	Percent of Annual Throughput Through This Emission Point	
									Jan-Mar	Apr-Jun	Jul-Sep
									25%	25%	25%
									Oct-Dec	25%	25%
<div style="display: flex; justify-content: space-between;"> <div> Method UTM Zone Latitude Longitude </div> <div> 27, "Unknown" 15 Horizontal 29 Vertical 90 </div> <div> Datum 3261267 mN 60 hundredths 97 hundredths </div> </div>											
<div style="display: flex; justify-content: space-between;"> <div> Type of Fuel Used and Heat Input (see instructions) Type of Fuel Heat Input (MMBTU/hr) </div> <div> Operating Parameters (include units) Parameter Description </div> </div>											
Fuel		Type of Fuel n/a		Heat Input (MMBTU/hr)		Normal Operating Rate/Throughput		Maximum Operating Rate/Throughput		Design Capacity/Volume	
										bbl	
										Shell Height (ft)	
										310 feet	
										Tank Diameter (ft)	
										310	
<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Fixed Roof </div> <div> <input type="checkbox"/> Floating Roof </div> <div> <input checked="" type="checkbox"/> External </div> <div> <input type="checkbox"/> Internal </div> </div>											
<div style="display: flex; justify-content: space-between;"> <div> Air Pollutant Specific Information Emission Point ID No. (Alternate ID) 10-07 </div> <div> Control Equipment Code Control Equipment Efficiency HAP / TAP CAS Number </div> <div> Proposed Emission Rates Average (lb/hr) Maximum (lb/hr) Annual (tons/yr) </div> <div> Permitted Emission Rate (Current) Annual (tons/yr) </div> <div> Add, Change, Delete, or Unchanged </div> <div> Continuous Compliance Method </div> <div> Concentration in Gases Exiting at Stack </div> </div>											
Pollutant		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate (Current)	
Total VOC (including those listed below)								Average (lb/hr)		Annual (tons/yr)	
Benzene								5252.21		Capped	
Cumene								30.66		Capped	
Ethyl benzene								0.23		Capped	
Toluene								2.03		Capped	
Xylene (mixed isomers)								14.93		Capped	
n-Hexane								5.95		Capped	
								32.94		Capped	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	

State of Louisiana										Date of submittal																																																
Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Dec 2010																																																
LOOP, LLC Port Complex - Lafourche Parish																																																										
Emission Point ID No. (Alternate ID) 11-07		Descriptive Name of the Emissions Source (Alt. Name) Tank 6408 (Cloveley Dome)				Approximate Location of Stack or Vent (see instructions)																																																				
Tempo Subject Item ID No. EQ036		Diameter (ft) or Stack Discharge Area (ft ²) n/a ft n/a ft ²		Height of Stack Above Grade (ft) n/a ft		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Flow at Conditions, not at Standard (ft ³ /min) n/a ft ³ /min		Stack Gas Exit Temperature (°F) n/a °F																																																
Stack and Discharge Physical Characteristics Change? (yes or no) no		Normal Operating Time (hours per year) 8,760 hr/yr		Date of Construction or Modification constructed		Percent of Annual Throughput Through This Emission Point		Method UTM Zone 29 ° 15 Horizontal 27 ° 764302 mE 10 ° Vertical 3261267 mN		Datum NAD27 3261267 mN 60 hundredths 97 hundredths																																																
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Air Pollutant Specific Information				Proposed Emission Rates		Permitted Emission Rate (Current)		Add, Change, Delete, or Unchanged		Continuous Compliance Method		Concentration in Gases Exiting at Stack																																														
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State of Louisiana										Date of submittal																											
Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Dec 2010																											
LOOP, LLC Port Complex - Lafourche Parish																																					
Emission Point ID No. (Alternate ID) 12-07		Descriptive Name of the Emissions Source (Alt. Name) Tank 6411 (Clovelly Dome)				Approximate Location of Stack or Vent (see instructions)				Date of submittal																											
Tempo Subject Item ID No. EQ1037		Diameter (ft) or Stack Discharge Area (ft ²) n/a ft ft ²		Height of Stack Above Grade (ft) n/a ft		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Flow at Conditions, not at Standard (ft ³ /min) n/a ft ³ /min		Date of Construction or Modification constructed																											
Stack and Discharge Physical Characteristics Change? (yes or no) no		Diameter (ft) or Stack Discharge Area (ft ²) n/a ft ft ²		Height of Stack Above Grade (ft) n/a ft		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Exit Temperature (°F) n/a °F		Normal Operating Time (hours per year) 8,760 hr/yr																											
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Jan-Mar	25%	Apr-Jun	25%	Jul-Sep	25%	Oct-Dec	25%																														
Operating Parameters (include units)																																					
Fuel		Type of Fuel		Heat Input (MMBTU/hr)		Normal Operating Rate/Throughput		Maximum Operating Rate/Throughput		Design Capacity/Volume																											
		n/a								600,000 bbl																											
										Shell Height (ft)																											
										310 feet																											
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Emission Point ID No. (Alternate ID) 12-07		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate (Current)																											
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	5252.21	Capped																																			
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	32.94	Capped																																			
Pollutant										Concentration in Gases Exiting at Stack																											
Total VOC (including those listed below)										ppm by vol																											
Benzene						00071-43-2				ppm by vol																											
Cumene						00098-82-8				ppm by vol																											
Ethyl benzene						00100-41-4				ppm by vol																											
Toluene						00108-88-3				ppm by vol																											
Xylene (mixed isomers)						#N/A				ppm by vol																											
n-Hexane						00110-54-3				ppm by vol																											

Emissions Inventory Questionnaire (EIQ) for Air Pollutants

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LOOP, LLC Port Complex - Lafourche Parish

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LOOP, LLC Port Complex - Lafourche Parish											
Emission Point ID No. (Alternate ID) 14-07		Descriptive Name of the Emissions Source (Alt. Name) Tank 6413 (Clovelly Dome)				Approximate Location of Stack or Vent (see instructions)				Datum NAD27 3261267 mN 60 hundredths	
Tempo Subject Item ID No. EQ1039		Stack and Discharge Physical Characteristics Change? (yes or no) no				Stack Gas Flow at Conditions, not at Standard (ft ³ /min) n/a		Stack Gas Exit Temperature (°F) n/a		Date of Construction or Modification 	
		Diameter (ft) or Stack Discharge Area (ft ²) n/a		Height of Stack Above Grade (ft) n/a		Stack Gas Exit Velocity ft/sec n/a		Normal Operating Time (hours per year) 8,760		Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Operating Parameters (include units)											
Fuel		Type of Fuel n/a		Heat Input (MMBTU/hr) n/a		Normal Operating Rate/Throughput Maximum Operating Rate/Throughput Design Capacity/Volume Shell Height (ft) Tank Diameter (ft)		Parameter 600,000 310		Description bbl feet	
Notes Under CAP, Revised for RVP 8.											
Air Pollutant Specific Information											
Emission Point ID No. (Alternate ID) 14-07		Control Equipment Code		Control Equipment Efficiency		IAP / TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate (Current)	
Pollutant		Average (lb/hr)		Maximum (lbs/hr)		Annual (tons/yr)		Add, Change, Delete, or Unchanged		Continuous Compliance Method	
Total VOC (including those listed below)				5252.21		Capped		C		ppm by vol	
Benzene				30.66		Capped		C		ppm by vol	
Cumene				0.23		Capped		C		ppm by vol	
Ethyl benzene				2.03		Capped		C		ppm by vol	
Toluene				14.93		Capped		C		ppm by vol	
Xylene (mixed isomers)				5.95		Capped		C		ppm by vol	
n-Hexane				32.94		Capped		C		ppm by vol	

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LOOP, LLC Port Complex - Lafourche Parish											
Emission Point ID No. (Alternate ID) 17-10		Descriptive Name of the Emissions Source (Alt. Name) Tank 6416 (Clovelly Dome)				Approximate Location of Stack or Vent (see instructions)					
Tempo Subject Item ID No.						Method 27, "Unknown" UTM Zone 15 Horizontal 764302 mE Vertical 3261267 mN Latitude 29° 16' 10" Longitude 90° 29' 29"					
Stack and Discharge Physical Characteristics Change? (yes or no) yes		Diameter (ft) or Stack Discharge Area (ft²) n/a ft n²		Height of Stack Above Grade (ft) n/a ft		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Flow at Conditions, not at Standard (ft³/min) n/a ft³/min		Stack Gas Exit Temperature (°F) n/a °F	
								Normal Operating Time (hours per year) 8,760 hr/yr		Date of Construction or Modification proposed	
										Percent of Annual Throughput Through This Emission Point	
										Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Operating Parameters (include units)											
Fuel		Type of Fuel n/a		Heat Input (MMBTU/hr)		Parameter		Description			
						Normal Operating Rate/Throughput					
						Maximum Operating Rate/Throughput					
						Design Capacity/Volume		600,000 bbl			
						Shell Height (ft)					
						Tank Diameter (ft)		310 feet			
Notes Under CAP.											
Air Pollutant Specific Information											
Emission Point ID No. (Alternate ID) 17-10		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate (Current)	
Pollutant								Average (lb/hr) Maximum (lbs/hr) Annual (tons/yr)		Add, Change, Delete, or Unchanged	
Total VOC (including those listed below)								5252.21 30.66 0.23 2.03 14.93 5.95 32.94		Capped Capped Capped Capped Capped Capped Capped	
Benzene						00071-43-2				A	
Cumene						00098-82-8				A	
Ethyl benzene						00100-41-4				A	
Toluene						00108-88-3				A	
Xylene (mixed isomers)						#N/A				A	
n-Hexane						00110-54-3				A	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	

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Emissions Inventory Questionnaire (EIQ) for Air Pollutants

LOOP, LLC Port Complex - Lafourche Parish

Date of submittal Dec 2010									
Emission Point ID No. (Alternate ID) 18-10		Descriptive Name of the Emissions Source (Alt. Name) Tank 6417 (Clovelly Dome)							
Tempo Subject Item ID No.		Approximate Location of Stack or Vent (see instructions) Method UTM Zone 29 ° 15 Horizontal 27 ° 764302 mE Vertical 3261267 mN Datum NAD27 60 hundredths 97 hundredths							
Stack and Discharge Physical Characteristics Change? (yes or no) yes		Diameter (ft) or Stack Discharge Area (ft²) n/a ft n/a ft²		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Flow at Conditions, not at Standard (ft³/min) n/a ft³/min		Stack Gas Exit Temperature (°F) n/a °F	
						Normal Operating Time (hours per year) 8,760 hr/yr		Date of Construction or Modification proposed	
								Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Operating Parameters (include units)									
Fuel Type of Fuel n/a		Parameter Normal Operating Rate/Throughput Maximum Operating Rate/Throughput Design Capacity/Volume Shell Height (ft) Tank Diameter (ft)							
		600,000 bbl 310 feet							
Notes Under CAP.									
Air Pollutant Specific Information									
Emission Point ID No. (Alternate ID) 18-10		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number		Proposed Emission Rates	
Pollutant								Average (lb/hr) Maximum (lbs/hr) Annual (tons/yr)	
Total VOC (including those listed below)								5252.21 30.66 0.23 2.03 14.93 5.95 32.94	
Benzene								Capped Capped Capped Capped Capped Capped Capped	
Cumene								A A A A A A A	
Ethyl benzene								A A A A A A A	
Toluene								A A A A A A A	
Xylene (mixed isomers)								A A A A A A A	
n-Hexane								A A A A A A A	
								ppm by vol ppm by vol ppm by vol ppm by vol ppm by vol ppm by vol	
								Add, Change, Delete, or Unchanged	
								Continuous Compliance Method	
								Concentration in Gases Exiting at Stack	

Date of submittal
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Emission Point ID No. (Alternate ID)	Descriptive Name of the Emissions Source (Alt. Name)	Approximate Location of Stack or Vent (see instructions)				
19-10	Tank 6418 (Clovell Dome)	Method	27, "Unknown"		Datum NAD27	
Tempo Subject Item ID No.		UTM Zone	15	Horizontal	764302	Vertical
		Latitude	29 °		27 °	10 °
		Longitude	90 °		16 °	29 °

Stack and Discharge Physical Characteristics Change? (yes or no)	Diameter (ft) or Stack Discharge Area (ft ²)	Height of Stack Above Grade (ft)	Stack Gas Exit Velocity	Stack Gas Flow at Conditions, <u>mol</u> at Standard (ft ³ /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)	Date of Construction or Modification	Percent of Annual Throughput Through This Emission Point
yes _____	n/a _____ ft ft ²	n/a _____ ft	n/a _____ ft/sec	n/a _____ ft ³ /min	n/a _____ °F	8,760 _____ hr/yr	_____	<div>Jan-Mar 25%</div> <div>Apr-Jun 25%</div> <div>Jul-Sep 25%</div> <div>Oct-Dec 25%</div>

Type of Fuel Used and Heat Input (see instructions)		Operating Parameters (include units)				
Fuel	Type of Fuel	Heat Input (MMBTU/hr)	Parameter	Description		
a	n/a		Normal Operating Rate/Throughput			
b			Maximum Operating Rate/Throughput			
c			Design Capacity/Volume	600,000 bbl		
Notes Under CAP.			Shell Height (ft)			
			Tank Diameter (ft)	310 feet		
			<input type="checkbox"/> Fixed Roof	<input type="checkbox"/> Floating Roof	<input checked="" type="checkbox"/> External	<input type="checkbox"/> Internal

Air Pollutant Specific Information											
Pollutant	Emission Point ID No. (Alternate ID) 19-10	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
					Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)				
Total VOC (including those listed below)											
Benzene				00071-43-2		5252.21		Capped	A		ppm by vol
Cumene				00098-82-8		30.66		Capped	A		ppm by vol
Ethyl benzene				00100-41-4		0.23		Capped	A		ppm by vol
Toluene				00108-88-3		2.03		Capped	A		ppm by vol
Xylene (mixed isomers)				#N/A		14.93		Capped	A		ppm by vol
Hexane				00110-54-3		5.95		Capped	A		ppm by vol
						32.94		Capped	A		ppm by vol

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Emission Point ID No. (Alternate ID) 20-10		Descriptive Name of the Emissions Source (Alt. Name) Tank 6419 (Clovelly Dome)				Approximate Location of Stack or Vent (see instructions)			
Tempo Subject Item ID No.		Method UTM Zone Latitude Longitude		27 "Unknown" 15 Horizontal 29 " Vertical 90 " mE 27 " 10 " 16 " 29 "		Datum NAD27 3261267 mN 60 hundredths 97 hundredths		Date of submittal Dec 2010	
Stack and Discharge Physical Characteristics Change? (yes or no) yes		Diameter (ft) or Stack Discharge Area (ft ²) n/a ft ft ²		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Flow at Conditions, not at Standard (ft ³ /min) n/a ft ³ /min		Stack Gas Exit Temperature (°F) n/a °F	
		Height of Stack Above Grade (ft) n/a ft		Normal Operating Time (hours per year) 8,760 hr/yr		Date of Construction or Modification proposed		Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Operating Parameters (include units)									
Type of Fuel Used and Heat Input (see instructions)		Parameter							
Type of Fuel a n/a		Normal Operating Rate/Throughput							
b n/a		Maximum Operating Rate/Throughput							
c n/a		Design Capacity/Volume 600,000 bbl							
		Shell Height (ft) 310 feet							
		Tank Diameter (ft)							
		<input type="checkbox"/> Fixed Roof <input checked="" type="checkbox"/> Floating Roof <input type="checkbox"/> External <input type="checkbox"/> Internal							
Air Pollutant Specific Information									
Emission Point ID No. (Alternate ID) 20-10		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number		Proposed Emission Rates	
Pollutant								Permitted Emission Rate (Current) Annual (tons/yr) Add, Change, Delete, or Unchanged Continuous Compliance Method Concentration in Gases Exiting at Stack	
Total VOC (including those listed below)								Average (lb/hr) Maximum (lbs/hr) Annual (tons/yr)	
Benzene						00071-43-2		5252.21 30.66 Capped	
Cumene						00098-82-8		0.23 2.03 Capped	
Ethyl benzene						00100-41-4		14.93 5.95 Capped	
Toluene						00108-88-3		32.94 Capped	
Xylene (mixed isomers)						#N/A		Capped	
n-Hexane						00110-54-3		Capped	

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LOOP, LLC Port Complex - Lafourche Parish											
Emission Point ID No. (Alternate ID) 21-10		Descriptive Name of the Emissions Source (Alt. Name) Tank 6420 (Clovelly Dome)				Approximate Location of Stack or Vent (see instructions)				Datum NAD27 3261267 mN 60 hundredths	
Tempo Subject Item ID No.		Diameter (ft) or Stack Discharge Area (ft ²) n/a ft n/a ft ²		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Flow at Conditions, not at Standard (ft ³ /min) n/a ft ³ /min		Stack Gas Exit Temperature (°F) n/a °F		Normal Operating Time (hours per year) 8,760 hr/yr	
Stack and Discharge Physical Characteristics Change? (yes or no) yes		Height of Stack Above Grade (ft) n/a ft		Stack Gas Exit Temperature (°F) n/a °F		Normal Operating Time (hours per year) 8,760 hr/yr		Date of Construction or Modification proposed		Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Operating Parameters (include units)											
Fuel		Type of Fuel n/a		Heat Input (MMBTU/hr)		Normal Operating Rate/Throughput		Parameter		Description	
						Maximum Operating Rate/Throughput					
						Design Capacity/Volume		600,000		bbl	
						Shell Height (ft)		310		feet	
Notes Under CAP.											
Air Pollutant Specific Information											
Emission Point ID No. (Alternate ID) 21-10		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate, (Current)	
								Average (lb/hr)		Annual (tons/yr)	
								Maximum (lbs/hr)		Annual (tons/yr)	
Pollutant											
Total VOC (including those listed below)								5252.21		Capped	
Benzene						00071-43-2		30.66		Capped	
Cumene						00098-82-8		0.23		Capped	
Ethyl benzene						00100-41-4		2.03		Capped	
Toluene						00108-88-3		14.93		Capped	
Xylene (mixed isomers)						#N/A		5.95		Capped	
n-Hexane						00110-54-3		32.94		Capped	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	

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Emissions Inventory Questionnaire (EIQ) for Air Pollutants
 LOOP, LLC Port Complex - Lafourche Parish

Emission Point ID No. (Alternate ID) 1-78		Descriptive Name of the Emissions Source (Alt. Name) Crude Relief Tank (Clovally Dome)		Approximate Location of Stack or Vent (see instructions) Datum NAD27 UTM Zone 3263500 mN Latitude 29° 15' 28" mE 21" 19" hundredths Longitude 90° 15' 18" hundredths	
Tempo Subject Item ID No. EQ1003		Method 27, "Unknown" Horizontal 766300 mE 21" 19" hundredths Vertical 3263500 mN 18 hundredths			

Stack and Discharge Physical Characteristics Change? (yes or no) no	Diameter (ft) or Stack Discharge Area (ft²) n/a ft n²	Height of Stack Above Grade (ft) n/a ft	Stack Gas Exit Velocity n/a ft/sec	Stack Gas Flow at Conditions, not at Standard (ft³/min) n/a ft³/min	Stack Gas Exit Temperature (°F) n/a °F	Normal Operating Time (hours per year) 8,760 hr/yr	Date of Construction or Modification constructed	Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%
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Type of Fuel Used and Heat Input (see instructions)		Operating Parameters (include units)	
Fuel	Type of Fuel	Parameter	Description
a	n/a	Normal Operating Rate/Throughput	MM gal/yr
b		Maximum Operating Rate/Throughput	
c		Design Capacity/Volume	MM gal
		Shell Height (ft)	
		Tank Diameter (ft)	100 feet

Air Pollutant Specific Information Emission Point ID No. (Alternate ID) 1-78				Proposed Emission Rates		Permitted Emission Rate (Current)		Add, Change, Delete, or Unchanged		Continuous Compliance Method		Concentration in Gases Exiting at Stack	
Pollutant	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)						
Total VOC (including those listed below)				0.38	0.38	1.65	1.65	U				ppm by vol	
Benzene			00071-43-2	<0.01	<0.01	0.02	0.02	U				ppm by vol	
Ethyl benzene			00100-41-4	<0.01	<0.01	<0.01	<0.01	U				ppm by vol	
Toluene			00108-88-3	<0.01	<0.01	0.01	0.01	U				ppm by vol	
Xylene (mixed isomers)			#N/A	<0.01	<0.01	0.01	0.01	U				ppm by vol	
n-Heptane			00110-54-3	<0.01	<0.01	0.02	0.02	U				ppm by vol	

State of Louisiana										Date of submittal	
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LOOP, LLC Port Complex - Lafourche Parish											
Emission Point ID No. (Alternate ID) 5-78		Descriptive Name of the Emissions Source (Alt. Name) Slop Oil Tank (Small Boat Harbor)				Approximate Location of Stack or Vent (see instructions)				Datum NAD27	
Tempo Subject Item ID No. EQ1004		Method		27 "Unknown"		Horizontal		Vertical		322800 mN	
		UTM Zone		15		771500		mE		49 "	
		Latitude		29 "		6 "				12 hundredths	
		Longitude		90 "		12 "				18 hundredths	
Stack and Discharge Physical Characteristics Change? (yes or no) no		Diameter (ft) or Stack Discharge Area (ft²) n/a ft ft²		Height of Stack Above Grade (ft) n/a ft		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Flow at Conditions, not at Standard (ft³/min) n/a ft³/min		Stack Gas Exit Temperature (°F) n/a °F	
		Normal Operating Time (hours per year) 8,760 hr/yr		Date of Construction or Modification constructed		Percent of Annual Throughput Through This Emission Point				Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Operating Parameters (include units)											
Fuel		Type of Fuel n/a		Heat Input (MMBTU/hr)		Normal Operating Rate/Throughput 84,000 gal/yr		Maximum Operating Rate/Throughput 79,315 gal		Design Capacity/Volume 16 feet	
						Shell Height (ft) 30		Tank Diameter (ft)			
Notes											
Air Pollutant Specific Information											
Emission Point ID No. (Alternate ID) 5-78		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate (Current)	
Pollutant								Average (lb/hr) <0.01		Annual (tons/yr) 0.01	
								Maximum (lbs/hr) <0.01		Annual (tons/yr) 0.01	
Total VOC (including those listed below)								Fixed Roof <input checked="" type="checkbox"/>		Floating Roof <input type="checkbox"/>	
								External <input type="checkbox"/>		Internal <input type="checkbox"/>	
								Add, Change, Delete, or Unchanged U		Continuous Compliance Method	
										Concentration in Gases Exiting at Stack ppm by vol	

State of Louisiana										Date of submittal		
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LOOP, LLC Port Complex - Lafourche Parish												
Emission Point ID No. (Alternate ID) 7-78		Descriptive Name of the Emissions Source (Alt. Name) Turbine Generator (Clovally Dome)				Approximate Location of Stack or Vent (see instructions)				Datum		
Tempo Subject Item ID No. EQT005		Diameter (ft) or Stack Discharge Area (ft ²)		Height of Stack Above Grade (ft)	Stack Gas Exit Velocity	Stack Gas Flow at Conditions, not at Standard (ft ³ /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)	Date of Construction or Modification	Percent of Annual Throughput Through This Emission Point		
yes		ft		ft	ft/sec	ft ³ /min	°F	hr/yr	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
<div> <div>Type of Fuel Used and Heat Input (see instructions)</div> <div> <div>Type of Fuel</div> <div>Heat Input (MMBTU/hr)</div> </div> </div>												
<div> <div>Operating Parameters (include units)</div> <div> <div>Parameter</div> <div>Description</div> </div> </div>												
<div> <div>Normal Operating Rate/Throughput</div> <div>Maximum Operating Rate/Throughput</div> <div>Design Capacity/Volume</div> <div>Shell Height (ft)</div> <div>Tank Diameter (ft)</div> </div>												
<div> <div> <input type="checkbox"/> Fixed Roof <input type="checkbox"/> Floating Roof <input type="checkbox"/> External <input type="checkbox"/> Internal </div> </div>												
<div> <div>Air Pollutant Specific Information</div> <div> <div>Emission Point ID No. (Alternate ID) 7-78</div> <div> <div>Pollutant</div> <div>Control Equipment Code</div> <div>Control Equipment Efficiency</div> <div>ILAP / TAP CAS Number</div> <div>Proposed Emission Rates</div> <div>Permitted Emission Rate (Current)</div> <div>Add, Change, Delete, or Unchanged</div> <div>Continuous Compliance Method</div> <div>Concentration in Gases Exiting at Stack</div> </div> </div> </div>												
Particulate matter (PM ₁₀)		Average (lb/hr)		Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Annual (tons/yr)	D			gr/std ft ³	
Sulfur dioxide		0.00		0.00	0.00	0.00	0.00	D			ppm by vol	
Nitrogen oxides		0.00		0.00	0.00	0.00	0.00	D			ppm by vol	
Carbon monoxide		0.00		0.00	0.00	0.00	0.00	D			ppm by vol	
Total VOC (including those listed below)		0.00		0.00	0.00	0.00	0.00	D			ppm by vol	

Emissions Inventory Questionnaire (EIQ) for Air Pollutants

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Emissions Inventory Questionnaire (EIQ) for Air Pollutants

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Date of submittal Dec 2010									
Approximate Location of Stack or Vent (see instructions)									
Emission Point ID No. (Alternate ID) 12-78		Descriptive Name of the Emissions Source (Alt. Name) Salt Dome Cavities (9) Piping and Brine Storage Reservoir (Cloveley Dome)				Datum NAD27 3263500 mN 54 hundredths 18 hundredths			
Tempo Subject Item ID No. EQT007		Method UTM Zone 29 Latitude 90° Longitude 27, "Unknown" 15 Horizontal 766300 mE 21 19		Normal Operating Time (hours per year) 8,760 hr/yr		Date of Construction or Modification constructed		Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Stack and Discharge Physical Characteristics Change? (yes or no) no		Diameter (ft) or Stack Discharge Area (ft²) n/a ft n²		Height of Stack Above Grade (ft) n/a ft		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Flow at Conditions, not at Standard (ft³/min) n/a ft³/min	
Stack Gas Exit Temperature (°F) n/a °F		Stack Gas Exit Temperature (°F) n/a °F		Stack Gas Exit Temperature (°F) n/a °F		Stack Gas Exit Temperature (°F) n/a °F		Stack Gas Exit Temperature (°F) n/a °F	
Operating Parameters (include units)									
Normal Operating Rate/Throughput 600 MM bbl/yr		Maximum Operating Rate/Throughput 1,806 MM gal		Design Capacity/Volume 1,806 MM gal		Shell Height (ft) 1,806 MM gal		Tank Diameter (ft) 1,806 MM gal	
Notes									
Air Pollutant Specific Information									
Emission Point ID No. (Alternate ID) 12-78		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number		Proposed Emission Rates	
Pollutant		Average (lb/hr) 0.40		Maximum (lbs/hr) <0.01		Annual (tons/yr) 1.74		Permitted Emission Rate (Current) Annual (tons/yr) 1.74	
Total VOC (including those listed below)		0.40		<0.01		1.74		U	
Benzene		<0.01		<0.01		0.01		U	
Cumene		<0.01		<0.01		<0.01		U	
Ethyl benzene		<0.01		<0.01		0.01		U	
Toluene		<0.01		<0.01		0.02		U	
Xylene (mixed isomers)		0.01		0.01		0.02		U	
n-Hexane		<0.01		<0.01		0.01		U	
Concentration in Gases Exiting at Stack		Add, Change, Delete, or Unchanged		Continuous Compliance Method		Concentration in Gases Exiting at Stack		ppm by vol ppm by vol ppm by vol ppm by vol ppm by vol ppm by vol	

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Emissions Inventory Questionnaire (EIQ) for Air Pollutants LOOP, LLC Port Complex - Lafourche Parish	Dec 2010

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Dec	

Emission Point ID No. (Alternate ID) 15-78		Descriptive Name of the Emissions Source (Alt. Name) Fourchon Booster Station Standby Generator		Approximate Location of Stack or Vent (see instructions) Method UTM Zone 29 ° 15 Horizontal 774800 mE Vertical 3228300 mN Latitude 90 ° Longitude 23 hundredths				Datum NAD27 27 "Unknown"			
Tempo Subject Item ID No. EQ1009		Stack and Discharge Physical Characteristics Change? (yes or no) yes		Diameter (ft) or Stack Discharge Area (ft ²) 0.57 ft	Height of Stack Above Grade (ft) 16 ft	Stack Gas Exit Velocity 237.00 ft/sec	Stack Gas Flow at Conditions, not at Standard (ft ³ /min) 5.014 ft ³ /min	Stack Gas Exit Temperature (°F) 850 °F	Normal Operating Time (hours per year) 500 hr/yr	Date of Construction or Modification constructed	Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%
Fuel		Type of Fuel Used and Heat Input (see instructions) Type of Fuel Diesel Heat Input (MMBTU/hr) 5.6		Operating Parameters (include units) Parameter 805 Description hp							
				Normal Operating Rate/Throughput 805 hp							
				Maximum Operating Rate/Throughput 805 hp							
				Design Capacity/Volume							
				Shell Height (ft)							
				Tank Diameter (ft)							
		Notes Increased hours.		<input type="checkbox"/> Fixed Roof		<input type="checkbox"/> Floating Roof		<input type="checkbox"/> External		<input type="checkbox"/> Internal	
Air Pollutant Specific Information											
Emission Point ID No. (Alternate ID) 15-78		Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates Average (lb/hr) Maximum (lbs/hr) Annual (tons/yr)		Permitted Emission Rate (Current) Annual (tons/yr)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack	
Pollutant											
Particulate matter (PM ₁₀)					0.56	0.56	0.14	0.07	C		80/sid ft ³
Sulfur dioxide					0.33	0.33	0.08	0.06	C		ppm by vol
Nitrogen oxides					19.32	19.32	4.83	0.94	C		ppm by vol
Carbon monoxide					4.43	4.43	1.11	0.20	C		ppm by vol
Total VOC (including those listed below)					0.57	0.57	0.14	0.07	C		ppm by vol
					0.004	0.004	<0.01	n/a	A		ppm by vol

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LOOP, LLC Port Complex - Lafourche Parish																																																																																																					
Emission Point ID No. (Alternate ID) 16-78		Descriptive Name of the Emissions Source (ALT Name) Small Boat Harbor Fire Pump				Approximate Location of Stack or Vent (see instructions)				Datum																																																																																											
Tempo Subject Item ID No. EQT010		Diameter (ft) or Stack Discharge Area (ft ²)		Height of Stack Above Grade (ft)	Stack Gas Exit Velocity	Stack Gas Flow at Conditions, not at Standard (ft ³ /min)	Stack Gas Exit Temperature (°F)	Normal Operating Time (hours per year)	Date of Construction or Modification	Percent of Annual Throughput Through This Emission Point																																																																																											
yes		ft		ft	ft/sec	ft ³ /min	°F	hr/yr		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec																																																																																								
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Air Pollutant Specific Information		HAP / TAP		Proposed Emission Rates		Permitted Emission Rate (Current)		Add, Change, Delete, or Unchanged		Continuous Compliance Method		Concentration in Gases Exiting at Stack																																																																																									
Emission Point ID No. (Alternate ID)	Control Equipment Code	Control Equipment Efficiency	CAS Number	Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Annual (tons/yr)	Annual (tons/yr)																																																																																													
16-78	Particulate matter (PM ₁₀)			0.00	0.00	0.00	0.00	0.02	D			gr/sid ft ³																																																																																									
	Sulfur dioxide			0.00	0.00	0.00	0.00	0.02	D			ppm by vol																																																																																									
	Nitrogen oxides			0.00	0.00	0.00	0.00	0.35	D			ppm by vol																																																																																									
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Notes		Fixed Roof		Floating Roof		External		Internal																																																																																													
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Date of submittal Dec 2010									
Emission Point ID No. (Alternate ID) 19-78		Descriptive Name of the Emissions Source (Alt. Name) Clovelly Dome - Portable Diesel Generator							
Tempo Subject Item ID No. EQT013		Approximate Location of Stack or Vent (see instructions) Method 27, "Unknown" UTM Zone 15 Horizontal 766300 mE Vertical 3263500 mN Latitude 29° 28' 13" Longitude 90° 15' 93"							
Stack and Discharge Physical Characteristics Change? (yes or no) yes		Diameter (ft) or Stack Discharge Area (ft²) 0.33 ft²		Height of Stack Above Grade (ft) 10 ft		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Flow at Conditions, not at Standard (ft³/min) 212 ft³/min	
						Stack Gas Exit Temperature (°F) 1,100 °F		Normal Operating Time (hours per year) 500 hr/yr	
								Date of Construction or Modification constructed	
								Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Operating Parameters (include units)									
Fuel Type of Fuel Diesel		Heat Input (MMBTU/hr) 0.07		Normal Operating Rate/Throughput 10 hp		Maximum Operating Rate/Throughput 10 hp		Design Capacity/Volume Shell Height (ft) Tank Diameter (ft)	
Notes Increased hours.									
Air Pollutant Specific Information									
Emission Point ID No. (Alternate ID) 19-78		Control Equipment Code		Control Equipment Efficiency		HAP/TAP CAS Number		Proposed Emission Rates Average (lb/hr) Maximum (lb/hr) Annual (tons/yr)	
Pollutant Particulate matter (PM ₁₀)								Permitted Emission Rate (Current) Annual (tons/yr) 0.01	
Sulfur dioxide								Add, Change, Delete, or Unchanged C	
Nitrogen oxides								Continuous Compliance Method Concentration in Gases Exiting at Stack g/sid ft³ ppm by vol	
Carbon monoxide								ppm by vol	
Total VOC (including those listed below)								ppm by vol	

State of Louisiana										Date of submittal	
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Emission Point ID No. (Alternate ID) 20-78		Descriptive Name of the Emissions Source (Alt. Name) Clovely Fire Pump				Approximate Location of Stack or Vent (see instructions)					
Tempo Subject Item ID No. EQ1014						Method UTM Zone Latitude Longitude		27, "Unknown"		Datum NAD27 3223800 mN 12 hundredths 18 hundredths	
Stack and Discharge Physical Characteristics Change? (yes or no) yes		Diameter (ft) or Stack Discharge Area (ft²) 0.42 ft²		Height of Stack Above Grade (ft) 12 ft		Stack Gas Exit Velocity 238.00 ft/sec		Stack Gas Flow at Conditions, not at Standard (ft³/min) 1,943 ft³/min		Stack Gas Exit Temperature (°F) 185 °F	
								Normal Operating Time (hours per year) 500 hr/yr		Date of Construction or Modification constructed	
										Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Operating Parameters (include units)											
Fuel		Type of Fuel Diesel		Heat Input (MMBTU/hr) 1.92		Normal Operating Rate/Throughput Maximum Operating Rate/Throughput Design Capacity/Volume Shell Height (ft) Tank Diameter (ft)		Parameter 1.92		Description MMBTU/hr	
Notes Increased hours.											
Air Pollutant Specific Information											
Emission Point ID No. (Alternate ID) 20-78		Control Equipment Code		Control Equipment Efficiency		IAP / TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate (Current)	
								Average (lb/hr)		Annual (tons/yr)	
								Maximum (lbs/hr)		Annual (tons/yr)	
								0.59		0.15	
								0.36		0.14	
								8.46		2.11	
								1.82		0.46	
								0.67		0.17	
								0.002		<0.01	
								0.002		n/a	
								0.002		A	
Pollutant		Control Equipment Code		Control Equipment Efficiency		IAP / TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate (Current)	
Particulate matter (PM ₁₀)								Average (lb/hr)		Annual (tons/yr)	
Sulfur dioxide								Maximum (lbs/hr)		Annual (tons/yr)	
Nitrogen oxides								0.59		0.15	
Carbon monoxide								0.36		0.14	
Total VOC (including those listed below)								8.46		2.11	
Formaldehyde								1.82		0.46	
								0.67		0.17	
								0.002		<0.01	
								0.002		n/a	
								0.002		A	
								0.002		n/a	
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								0.002		n/a	
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								0.002		n/a	
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								0.002		A	
								0.002		n/a	
								0.002		A	

State of Louisiana										Date of submittal	
Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Dec 2010	
LOOP, LLC Port Complex - Lafourche Parish											
Emission Point ID No. (Alternate ID) 21-78		Descriptive Name of the Emissions Source (Alt. Name) Clovally Dome - Standby Generator - Brine Storage Reservoir				Approximate Location of Stack or Vent (see instructions)					
Tempo Subject Item ID No. EQ015						Method UTM Zone Latitude Longitude		27, "Unknown" Horizontal Vertical Datum NAD27 3263500 mN 54 hundredths 93 hundredths			
Stack and Discharge Physical Characteristics Change? (yes or no) yes		Diameter (ft) or Stack Discharge Area (ft²) 0.33 ft²		Height of Stack Above Grade (ft) 10 ft		Stack Gas Exit Velocity 212.00 ft/sec		Stack Gas Flow at Conditions, not at Standard (ft³/min) 1,100 ft³/min		Stack Gas Exit Temperature (°F) 1,100 °F	
								Normal Operating Time (hours per year) 500 hr/yr		Date of Construction or Modification constructed	
										Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Operating Parameters (include units)											
Fuel		Type of Fuel Diesel		Heat Input (MMBTU/hr) 0.08		Normal Operating Rate/Throughput 108		Parameter 108		Description hp	
						Maximum Operating Rate/Throughput 108				hp	
						Design Capacity/Volume					
						Shell Height (ft)					
						Tank Diameter (ft)					
								Floating Roof <input type="checkbox"/> Fixed Roof <input type="checkbox"/>		External <input type="checkbox"/> Internal <input type="checkbox"/>	
Notes Increased hours.											
Air Pollutant Specific Information											
Emission Point ID No. (Alternate ID) 21-78		Control Equipment Code		Control Equipment Efficiency		HAP/TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate (Current)	
Pollutant								Average (lb/hr)		Annual (tons/yr)	
								Maximum (lbs/hr)		Annual (tons/yr)	
Particulate matter (PM ₁₀)								0.24		0.06	
Sulfur dioxide								0.22		0.06	
Nitrogen oxides								3.35		0.84	
Carbon monoxide								0.72		0.18	
Total VOC (including those listed below)								0.27		0.07	
										Continuous Compliance Method	
										Concentration in Gases Exiting at Stack	
										gr/sid ft³	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	

State of Louisiana										Date of submittal	
Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Dec 2010	
LOOP, LLC Port Complex - Lafourche Parish											
Emission Point ID No. (Alternate ID) 23-88		Descriptive Name of the Emissions Source (Alt. Name) Clovally Dome - Tank 1 Operations Center				Approximate Location of Stack or Vent (see instructions)				Datum NAD27 3263500 mN 54 hundredths	
Tempo Subject Item ID No. EQ016		Diameter (ft) or Stack Discharge Area (ft ²) n/a ft ft ²		Height of Stack Above Grade (ft) n/a ft		Stack Gas Exit Velocity ft/sec n/a		Stack Gas Flow at Conditions, not at Standard (ft ³ /min) n/a ft ³ /min		Stack Gas Exit Temperature (°F) n/a °F	
Stack and Discharge Physical Characteristics Change? (yes or no) no		Normal Operating Time (hours per year) 8,760 hr/yr		Date of Construction or Modification constructed		Percent of Annual Throughput Through This Emission Point		Jan-Mar 25%		Apr-Jun 25%	
		Oct-Dec 25%									
Operating Parameters (include units)											
Fuel		Type of Fuel n/a		Heat Input (MMBTU/hr)		Parameter		Description			
a						Normal Operating Rate/Throughput		9000 gal/yr			
b						Maximum Operating Rate/Throughput		1000 gal			
c						Design Capacity/Volume		11 feet			
						Shell Height (ft)		4 feet			
						Tank Diameter (ft)					
Notes											
<input type="checkbox"/> Fixed Roof <input type="checkbox"/> Floating Roof <input type="checkbox"/> External <input type="checkbox"/> Internal											
Air Pollutant Specific Information											
Emission Point ID No. (Alternate ID) 23-88		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate (Current)	
Pollutant								Average (lb/hr)		Annual (tons/yr)	
Total VOC (including those listed below)								0.06		0.27	
Benzene								<0.01		<0.01	
Toluene								<0.01		<0.01	
n-Hexane								<0.01		<0.01	
								0.06		0.27	
								<0.01		<0.01	
								<0.01		<0.01	
								<0.01		<0.01	
								0.06		0.27	
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								0.06		0.27	
								<0.01		<0.01	
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								0.06		0.27	
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								0.06		0.27	
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								0.06		0.27	
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								0.06		0.27	
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								0.06		0.27	
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								0.06		0.27	
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								0.06		0.27	
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								0.06		0.27	
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								0.06		0.27	
								<0.01		<0.01	

State of Louisiana										Date of submittal	
Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Dec 2010	
LOOP, LLC Port Complex - Lafourche Parish											
Emission Point ID No. (Alternate ID) 24-88		Descriptive Name of the Emissions Source (Alt. Name) Cloveley Dome - Tank 2 Operations Center				Approximate Location of Stack or Vent (see instructions)				Datum NAD27 3263500 mN 54 hundredths 18 hundredths	
Tempo Subject Item ID No. EQ1017		Method UTM Zone Latitude Longitude				27 "Unknown" Horizontal Vertical 28 21 19					
Stack and Discharge Physical Characteristics Change? (yes or no) no		Diameter (ft) or Stack Discharge Area (ft²) n/a ft²		Height of Stack Above Grade (ft) n/a ft		Stack Gas Exit Velocity n/a ft/sec		Stack Gas Flow at Conditions, not at Standard (ft³/min) n/a ft³/min		Stack Gas Exit Temperature (°F) n/a °F	
								Normal Operating Time (hours per year) 8,760 hr/yr		Date of Construction or Modification constructed	
										Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Operating Parameters (include units)											
Fuel		Type of Fuel n/a		Heat Input (MMBTU/hr)		Normal Operating Rate/Throughput 9000 gal/yr					
						Maximum Operating Rate/Throughput 1000 gal					
						Design Capacity/Volume 11 feet					
						Shell Height (ft) 4 feet					
						Tank Diameter (ft)					
						<input type="checkbox"/> Fixed Roof <input type="checkbox"/> Floating Roof <input type="checkbox"/> External <input type="checkbox"/> Internal					
Air Pollutant Specific Information											
Emission Point ID No. (Alternate ID) 24-88		Control Equipment Code		Control Equipment Efficiency		IIAP / TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate (Current)	
Pollutant								Average (lb/hr) Maximum (lbs/hr) Annual (tons/yr)		Add, Change, Delete, or Unchanged	
Total VOC (including those listed below)								0.06 0.06 0.27		U	
Benzene								<0.01 <0.01 <0.01		U	
Toluene								<0.01 <0.01 <0.01		U	
n-Hexane								<0.01 <0.01 <0.01		U	
										Concentration in Gases Exiting at Stack	
										ppm by vol	
										ppm by vol	
										ppm by vol	
										ppm by vol	

Date of submittal
Dec 1 2010

Datum <u>NAD27</u>	
3263500	mN
54	hundredths
18	hundredths
Percent of Annual Highput Through This Emission Point	
Apr- Jun	Jul-Sep 25%
25%	Oct- Dec 25%
Description	
hp	
hp	
<input type="checkbox"/>	Internal

1101

[illegible]

State of Louisiana
Emissions Inventory Questionnaire (EIQ) for Air Pollutants
LOOP, LLC Port Complex - Lafourche Parish

[illegible]

State of Louisiana										Date of submittal																																																																																															
Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Dec 2010																																																																																															
LOOP, LLC Port Complex - Lafourche Parish																																																																																																									
Emission Point ID No. (Alternate ID) 5-99		Descriptive Name of the Emissions Source (Alt. Name) Clovell Dome - Crude Oil Tankfarm Firewater Pump				Approximate Location of Stack or Vent (see instructions)				Date																																																																																															
Tempo Subject Item ID No. EQ1020		Diameter (ft) or Stack Discharge Area (ft²) 0.67 ft²		Height of Stack Above Grade (ft) 6 ft		Stack Gas Exit Velocity 250.00 ft/sec		Stack Gas Flow at Conditions, not at Standard (ft³/min) 5,400		Stack Gas Exit Temperature (°F) 730 °F																																																																																															
Stack and Discharge Physical Characteristics Change? (yes or no) yes		Normal Operating Time (hours per year) 500 hr/yr		Date of Construction or Modification constructed		Percent of Annual Throughput Through This Emission Point		Method UTM Zone Latitude Longitude		Datum NAD27 3261267 mN 60 hundredths 97 hundredths																																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">Operating Parameters (include units)</th> </tr> <tr> <th>Parameter</th> <th>Description</th> <th>Parameter</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Normal Operating Rate/Throughput</td> <td>1100</td> <td>hp</td> <td></td> </tr> <tr> <td>Maximum Operating Rate/Throughput</td> <td>1100</td> <td>hp</td> <td></td> </tr> <tr> <td>Design Capacity/Volume</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Shell Height (ft)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tank Diameter (ft)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												Operating Parameters (include units)				Parameter	Description	Parameter	Description	Normal Operating Rate/Throughput	1100	hp		Maximum Operating Rate/Throughput	1100	hp		Design Capacity/Volume				Shell Height (ft)				Tank Diameter (ft)																																																																					
Operating Parameters (include units)																																																																																																									
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Date of submittal	Dec 1 2010
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form 7203-100

State of Louisiana
Emissions Inventory Questionnaire (EIQ) for Air Pollutants
 LOOP, LLC Port Complex - Lafourche Parish

Emission Point ID No. (Alternate ID) 3-07	Descriptive Name of the Emissions Source (Alt. Name) 671 bhp Emergency Generator (Clovally Dome)	Approximate Location of Stack or Vent (see instructions)	Date of submittal Dec 2010
Tempo Subject Item ID No. EQ7023	Method UTM Zone Latitude Longitude	27, "Unknown" Horizontal Vertical Datum NAD27 3261267 mN 60 hundredths 29 90 27 16 10 29 97 hundredths	

Stack and Discharge Physical Characteristics Change? (yes or no) yes	Diameter (ft) or Stack Discharge Area (ft²) 0.5 ft ft²	Height of Stack Above Grade (ft) 9.83 ft	Stack Gas Exit Velocity 220.69 ft/sec	Stack Gas Flow at Conditions, not at Standard (ft³/min) 2,600 ft³/min	Stack Gas Exit Temperature (°F) 810 °F	Normal Operating Time (hours per year) 500 hr/yr	Date of Construction or Modification Nov 2005 constructed	Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%
---	--	---	--	--	---	---	---	--

Type of Fuel Used and Heat Input (see instructions)				Operating Parameters (include units)			
Fuel	Type of Fuel	Heat Input (MMBTU/hr)	Parameter	Description	Parameter	Description	
a	Diesel	4.7	Normal Operating Rate/Throughput	bhp	671	bhp	
b			Maximum Operating Rate/Throughput	bhp	671	bhp	
c			Design Capacity/Volume				
			Shell Height (ft)				
			Tank Diameter (ft)				

Air Pollutant Specific Information											
Pollutant	Emission Point ID No. (Alternate ID) 3-07	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
					Average (lb/hr)	Maximum (lb/hr)	Annual (tons/yr)				
Particulate matter (PM ₁₀)					0.47	0.47	0.12	<0.01	C		gr/std ft³
Sulfur dioxide					0.27	0.27	0.07	0.01	C		ppm by vol
Nitrogen oxides					16.10	16.10	4.03	0.04	C		ppm by vol
Carbon monoxide					3.69	3.69	0.92	0.01	C		ppm by vol
Total VOC (including those listed below)					0.47	0.47	0.12	<0.01	C		ppm by vol
Benzene				00071-43-2	0.004	0.004	<0.01	n/a	A		ppm by vol

Date of submittal
Dec 1 2010

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State of Louisiana
Emissions Inventory Questionnaire (EIQ) for Air Pollutants
 LOOP, LLC Port Complex - Lafourche Parish

Emission Point ID No. (Alternate ID) 5-07	Descriptive Name of the Emissions Source (Alt. Name) 268 bhp Emergency Generator (OC Warehouse)	Approximate Location of Stack or Vent (see instructions)	Date of submittal Dec 2010
Tempo Subject Item ID No. EQ025		Method UTM Zone Latitude Longitude 27, "Unknown" 15 29 ° 90 °	Datum NAD27 3261267 mN 60 hundredths 97 hundredths

Stack and Discharge Physical Characteristics Change? (yes or no) yes	Diameter (ft) or Stack Discharge Area (ft²) 0.42 ft²	Height of Stack Above Grade (ft) 10.25 ft	Stack Gas Exit Velocity 135.94 ft/sec	Stack Gas Flow at Conditions, not at Standard (ft³/min) 1,130 ft³/min	Stack Gas Exit Temperature (°F) 1,056 °F	Normal Operating Time (hours per year) 500 hr/yr	Date of Construction or Modification May 2006 constructed	Percent of Annual Throughput Through This Emission Point Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%
---	---	--	--	--	---	---	---	--

Type of Fuel Used and Heat Input (see instructions)				Operating Parameters (include units)				
Fuel	Type of Fuel	Heat Input (MMBTU/hr)	Parameter	Description				
a	Diesel	1.9	Normal Operating Rate/Throughput	268	bhp			
b			Maximum Operating Rate/Throughput	268	bhp			
c			Design Capacity/Volume					
			Shell Height (ft)					
			Tank Diameter (ft)					

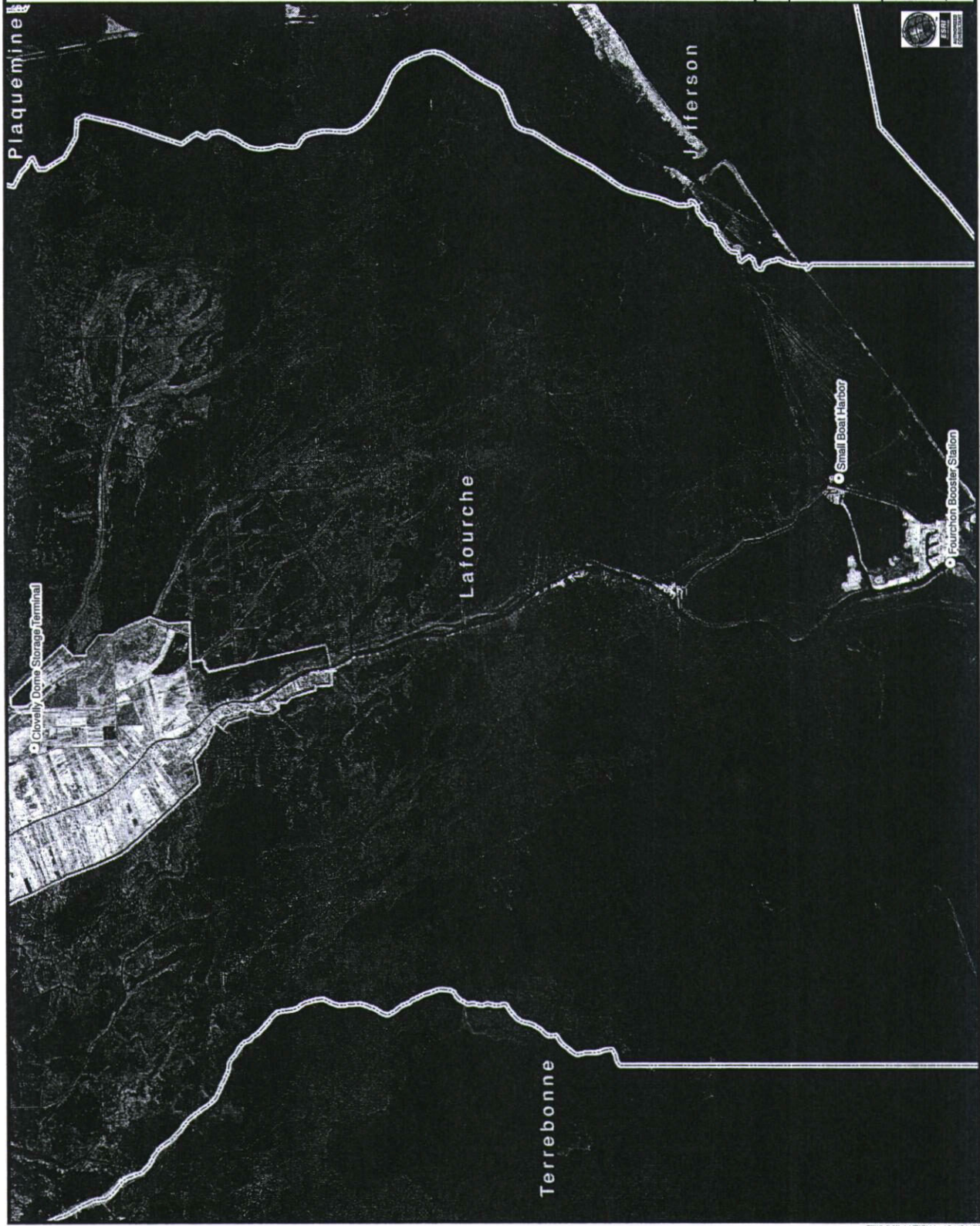
Air Pollutant Specific Information											
Pollutant	Emission Point ID No. (Alternate ID) 5-07	Control Equipment Code	Control Equipment Efficiency	HAP / TAP CAS Number	Proposed Emission Rates			Permitted Emission Rate (Current)	Add, Change, Delete, or Unchanged	Continuous Compliance Method	Concentration in Gases Exiting at Stack
					Average (lb/hr)	Maximum (lbs/hr)	Annual (tons/yr)				
Particulate matter (PM ₁₀)					0.59	0.59	0.15	<0.01	C		gt/sid ft³
Sulfur dioxide					0.55	0.55	0.14	<0.01	C		ppm by vol
Nitrogen oxides					8.31	8.31	2.08	0.03	C		ppm by vol
Carbon monoxide					1.79	1.79	0.45	0.01	C		ppm by vol
Total VOC (including those listed below)					0.66	0.66	0.17	<0.01	C		ppm by vol
Formaldehyde				00050-00-0	0.002	0.002	<0.01	n/a	A		ppm by vol

Date of submittal
Dec | 2010

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03/08/07

State of Louisiana										Date of submittal	
Emissions Inventory Questionnaire (EIQ) for Air Pollutants										Dec 2010	
LOOP, LLC Port Complex - Lafourche Parish											
Emission Point ID No. (Alternate ID) 10-78		Descriptive Name of the Emissions Source (Alt. Name) Fugitive Emissions (Cloveley Dome)				Approximate Location of Stack or Vent (see instructions)					
Tempo Subject Item ID No. FUG001						Method UTM Zone Latitude Longitude		27, "Unknown" Horizontal 58 15		Datum NAD27 3263500 mN 54 hundredths 93 hundredths	
Stack and Discharge Physical Characteristics Change? (yes or no) no		Diameter (ft) or Stack Discharge Area (ft²) n/a ft ft²		Height of Stack Above Grade (ft) n/a ft		Stack Gas Exit Velocity ft/sec n/a		Stack Gas Exit Temperature (°F) n/a °F		Normal Operating Time (hours per year) 8,760 hr/yr	
										Date of Construction or Modification	
										Percent of Annual Throughput Through This Emission Point	
										Jan-Mar 25% Apr-Jun 25% Jul-Sep 25% Oct-Dec 25%	
Operating Parameters (include units)											
Fuel		Type of Fuel		Heat Input (MMBTU/hr)		Normal Operating Rate/Throughput		Maximum Operating Rate/Throughput		Description	
						Design Capacity/Volume					
						Shell Height (ft)					
						Tank Diameter (ft)					
Air Pollutant Specific Information											
Emission Point ID No. (Alternate ID) 10-78		Control Equipment Code		Control Equipment Efficiency		HAP / TAP CAS Number		Proposed Emission Rates		Permitted Emission Rate (Current)	
Pollutant								Average (lb/hr) <0.01		Annual (tons/yr) <0.01	
								Maximum (lb/hr) <0.01		Annual (tons/yr) <0.01	
Total VOC (including those listed below)								Add, Change, Delete, or Unchanged U		Concentration in Gases Exiting at Stack ppm by vol	

FIGURE 1
SITE LOCATION MAP



LOOP LLC
 GALLIANO/LEEVILLE, LOUISIANA
 LOOP LLC PORT COMPLEX

SITE LOCATION MAP

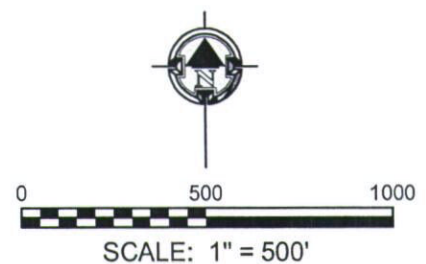
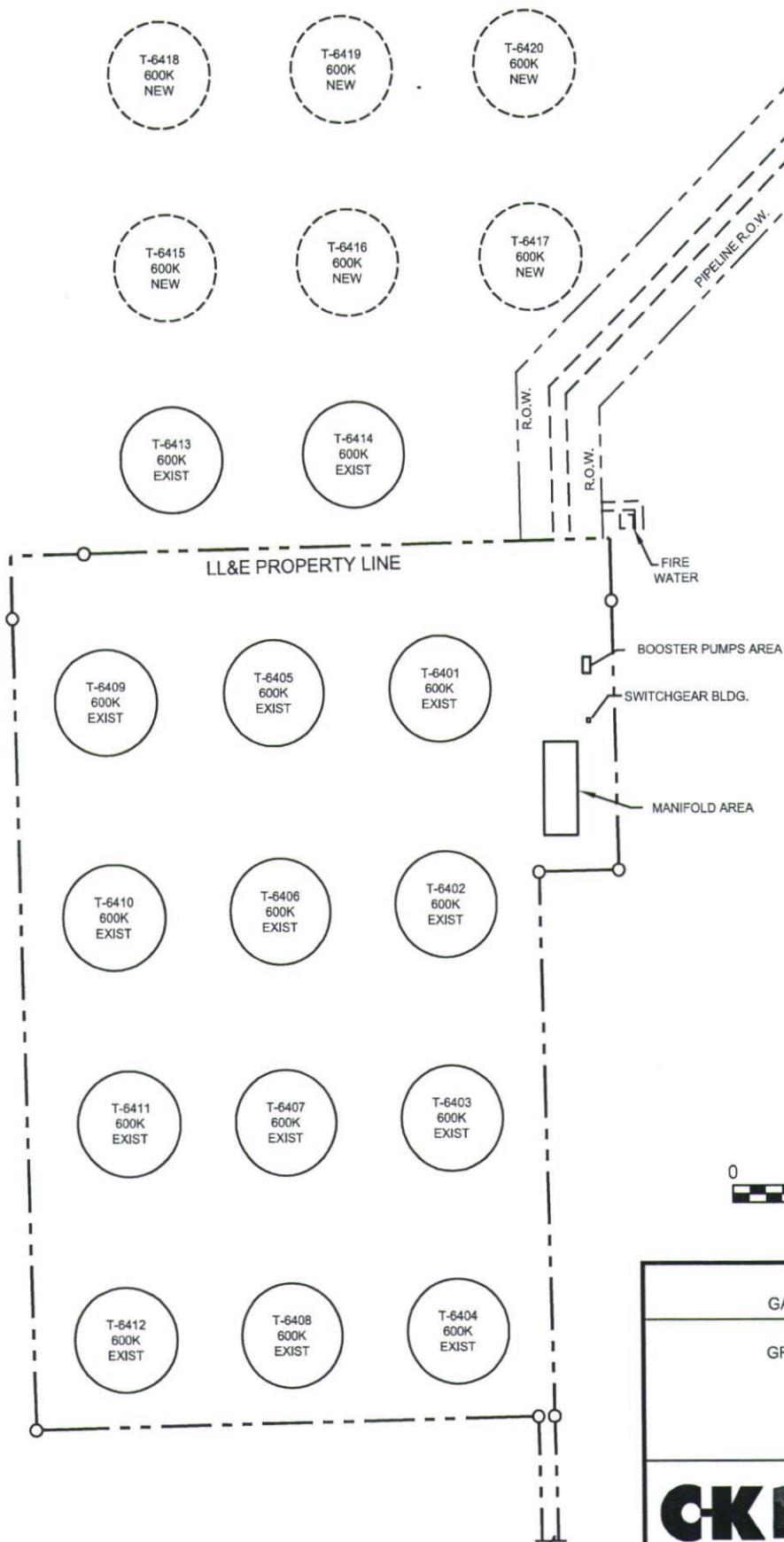
LAFOURCHE PARISH



Drawn: ABL/AV9.2
 Checked: TF
 Approved: ME
 Date: 02/27/07
 Dwg. No.: B2779A-01

FIGURE 1

FIGURE 2
PLOT PLAN



LOOP LLC	
GALLIANO/LEEVILLE, LOUISIANA	
LOOP LLC PORT COMPLEX GROUNDWATER CERTIFICATION	
PLOT PLAN	
LAFOURCHE PARISH	
Drawn:	CAL/ACAD
GT Checked:	-
Checked:	TF
Approved:	TF
Date:	12/10/10
Dwg. No.:	A5510A-03
FIGURE 2	

CK
ASSOCIATES, LLC
ENVIRONMENTAL & ENGINEERING
CONSULTANTS

APPENDIX A

STATE OPERATING PERMIT 1560-00027-03



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.:

Activity No.: PER20070001

Agency Interest No.: 4634

Mrs. CaSandra J. Cooper-Gates
Director, Human, Environmental and Safety Services
LOOP LLC
Post Office Box 7250
Metairie, Louisiana 70010-7250

RE: Permit Modification, LOOP LLC - Port Complex, LOOP LLC
Galliano, Lafourche Parish, Louisiana

Dear Mrs. Cooper-Gates:

This is to inform you that the permit modification request for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets, and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Also enclosed is a document entitled "General Information." Please be advised that this document contains a summary of facility-level information contained in LDEQ's TEMPO database and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

The permit number cited below and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this 12th day of June, 2007.

Permit No.: 1560-00027-03

Sincerely,

Chuck Carr Brown, Ph.D.
Assistant Secretary

CCB:sbp

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
Galliano, Lafourche Parish, Louisiana

I. BACKGROUND

LOOP LLC - Port Complex consists of pipeline terminal facilities existing in Galliano and Leesville located in Lafourche Parish. The LOOP LLC - Port Complex currently operates under Permit No. 1560-00027-02, issued February 5, 2003

II. ORIGIN

A permit application and Emission Inventory Questionnaire (EIQ) dated April 4, 2007, were received requesting a permit modification.

III. DESCRIPTION

The LOOP LLC - Port Complex consists of the Clovelly Dome Storage Terminal in Galliano, the Small Boat Harbor in Leesville, the Fourchon Booster Station in Leesville, and the Marine Offloading Terminal in Grand Isle Block 59 of the Gulf of Mexico. The Clovelly Dome Storage Terminal consists of nine underground storage caverns. These caverns provide storage for crude oil prior to pipeline delivery. Eight of the caverns have a capacity of approximately 6 MM barrels of oil, and one cavern has a capacity of 3 MM barrels of oil. The terminal also consists of surface facilities located in the same general vicinity which include a Brine Storage Reservoir, Operations Building, crude oil storage tanks, fuel and slop oil tanks, a turbine generator, and ancillary equipment. The Small Boat Harbor, which is located on Bayou Lafourche, shelters crew and work boats and includes hose testing facilities. The Fourchon Booster Station is a secured unmanned facility with two large diesel storage tanks and a few small storage tanks. Emission control systems utilized at the LOOP Complex facilities include the latest storage tank technology, mechanical seals on pumps, and low sulfur fuel oil.

LOOP LLC proposes to expand its Clovelly Dome Storage Terminal to include eight (8) additional crude oil storage tanks (Emission Point Nos. 8-07 through 15-07). Construction will be done in two phases with four (4) tanks constructed under each phase. The new tanks will be modeled after the six (6) existing tanks, each being an external floating roof tank and having a diameter of 310 feet. The volume of each of the new tanks will also be the same as the existing tanks, 600,000 barrels (bbl). With the additional tankage, it is expected that the previously permitted crude oil throughput of 60,000 bbl/day per tank will change to approximately 45,000 bbl/day per tank. However, the facility is requesting to remove the existing Consolidated Crude Oil Throughput operating scenario, and instead place all 14 crude oil tanks under one emissions CAP consisting of both operating and roof landing emissions based on a total facility-wide annual crude oil throughput of 230 million bbl of crude oil per year, which is an increase of the previously permitted throughput of 131.4 million bbl/yr. The emissions CAP will allow the facility to operate

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
Galliano, Lafourche Parish, Louisiana

the crude oil storage tanks with the flexibility to increase throughput through any one tank to meet scheduling and production needs. The CAP will also allow for roof landings to occur, when necessary. In addition, LOOP LLC is permitting six (6) diesel-fired emergency generators (Emission Point Nos. 1-07 through 6-07) which vary in size, as well as updating emission rates for existing sources based on evaluated operational parameters, emission calculation methodology, and speciation profiles.

Estimated emissions from this facility in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	2.84	1.05	- 1.79
SO ₂	29.18	22.56	- 6.62
NO _x	36.45	45.56	+ 9.11
CO	2.22	1.76	- 0.46
VOC ¹	43.24	93.82	+ 50.58

¹VOC speciation in tons per year:

LAC 33:III. Chapter 51 Toxic Air Pollutants TAP's	Emissions
Acetaldehyde	0.001
Benzene	0.924
Cumene	0.023
Ethyl benzene	0.124
Formaldehyde	0.001
n-Hexane	0.948
Toluene	0.590
Xylenes	0.447
Total TAP's	3.057
Other VOC's	90.763
Total VOC	93.820

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
Galliano, Lafourche Parish, Louisiana

IV. TYPE OF REVIEW

This permit was reviewed for compliance with Louisiana Air Quality Regulations and New Source Performance Standards (NSPS) Prevention of Significant Deterioration (PSD) and National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply.

This facility is a minor source of LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs).

V. PUBLIC NOTICE

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on May 9, 2007; and in the *Lafourche Gazette*, Larose, on May 9, 2007. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on May 8, 2007. No comments were received.

VI. EFFECTS ON AMBIENT AIR

Dispersion Model(s) Used: None

VII. GENERAL CONDITION XVII ACTIVITIES

Work Activity	Schedule	PM ₁₀	Emission Rates - tons			
			SO ₂	NO _x	CO	VOC
None Specified						

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**LOOP LLC - Port Complex
Agency Interest No.: 4634
LOOP LLC
Galliano, Lafourche Parish, Louisiana**

VIII. INSIGNIFICANT ACTIVITIES

ID	Description	Citation
2-78	Diesel Fuel Tank for Turbine Generator (Clovelly Dome), 8,200 gallons	LAC 33:III.501 B.5.A.3
22-78	Diesel Fuel Tank for Emergency Crude Pump (Clovelly Dome), 8,200 gallons	LAC 33:III.501 B.5.A.3
25-88	Tank 3 – Operations Center – Diesel Tank (Clovelly Dome), 4,000 gallons	LAC 33:III.501 B.5.A.3
26-88	Tank 4 – Operations Center – Diesel Tank (Clovelly Dome), 4,000 gallons	LAC 33:III.501 B.5.A.3
27-88	Tank 5 – Fourchon Booster Station Diesel Tank, 1,000 gallons	LAC 33:III.501 B.5.A.3
28-88	Tank 6 – Fourchon Booster Station Emergency Generator Diesel Tank (Clovelly Dome), 322 gallons	LAC 33:III.501 B.5.A.3
29-88	Tank 7 – Fourchon Booster Station Dock Diesel Tank, 560 gallons	LAC 33:III.501 B.5.A.3
30-88	Tank 8 – Clovelly Day Tank for Fire Pumps, 80 gallons	LAC 33:III.501 B.5.A.2
31-88	Tank 9 – Clovelly Day Tank for Generators, 115 gallons	LAC 33:III.501 B.5.A.2
32-88	Tank 10 – Clovelly Underground Slop Oil Tank by Lab, 2,000 gallons	LAC 33:III.501 B.5.A.3
34-88	Tank 12 – Small Boat Harbor Diesel Tank, 260 gallons	LAC 33:III.501 B.5.A.3
36-89	Day Tank for Operations Center Standby Generator (Clovelly Dome), 94 gallons	LAC 33:III.501 B.5.A.2
37-91	Small Boat Harbor Diesel Tank, 564 gallons	LAC 33:III.501 B.5.A.3

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated April 4, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III 913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33 I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

D. Each report submitted in accordance with this condition shall contain the following information:

1. Description of noncomplying emission(s);
2. Cause of noncompliance;
3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.

E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agent in charge.

XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- XV The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 4634 LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

Also Known As:	ID	Name	User Group	Start Date
	1560-00027	LOOP LLC - Port Complex	CDS Number	10-12-1996
	72-0723344	LOOP LLC - Port Complex	Federal Tax ID	11-21-1999
	LAD980898799	LOOP LLC - Port Complex	Hazardous Waste Notification	02-22-1983
	LA0049492	LPDES #	LPDES Permit #	06-25-2003
	WP0330	LPDES #	LWDPS Permit #	06-25-2003
		Priority 2 Emergency Site	Priority 2 Emergency Site	07-20-2006
		Radiation General License	Radiation License Number	01-09-2002
	29-006030	UST Facility ID #	Underground Storage Tanks	10-11-2002
	2164	LOOP LLC - Port Complex	Water Permitting	11-21-1999

Physical Location:

4 Mi NE of
Galliano, LA

Mailing Address:

East 101 A St
Galliano, LA 70354

Location of Front Gate:

29° 27' 45" latitude, 90° 18' 20" longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD27

Related People:

Name	Mailing Address	Phone (Type)	Relationship
CaSandra J. Cooper-Gates	PO Box 7250 Metairie, LA 700107250	5043839282 (WP)	Responsible Official for
CaSandra J. Cooper-Gates	PO Box 7250 Metairie, LA 700107250	5043839282 (WP)	Water Billing Party for

Related Organizations:

Name	Address	Phone (Type)	Relationship
LOOP LLC	PO Box 1670 Larose, LA 703731670	5043885687 (WP)	Operates
LOOP LLC	PO Box 1670 Larose, LA 703731670	5043885687 (WP)	Air Billing Party for
Louisiana Offshore Oil Port Inc	One Seine Court Box 6638 New Orleans, LA 70174		UST Billing Party for

SIC Codes: 4612, Crude petroleum pipelines

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20070001
Permit Number: 1560-00027-03
Air - Minor (Synthetic) Modification

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT003	1-78 Crude Relief Tank - External Floating Roof (Clovelly Dome)	2.31 million gallons		23.1 MM gallons/yr		8760 hr/yr (All Year)
EQT004	5-78 Slop Oil Tank (Small Boat Harbor)	79315 gallons		84000 gallons/yr	wastewater and lube oils	8760 hr/yr (All Year)
EQT005	7-78 Turbine Generator (Clovelly Dome)		275.6 MM BTU/hr	275.6 MM BTU/hr		320 hr/yr (All Year)
EQT006	11-78 Fourchon Booster Station Tank No. 1 - Diesel Fuel Oil	1.18 million gallons		23 MM gallons/yr		8760 hr/yr (All Year)
EQT007	12-78 Salt Dome Cavities (9), Piping, and Brine Storage Reservoir (Clovelly Dome)	1806 million gallons		600 MM bbl/yr		8760 hr/yr (All Year)
EQT008	13-78 Fourchon Booster Station Tank No. 2 - Diesel Fuel Oil	1.18 million gallons		23 MM gallons/yr		8760 hr/yr (All Year)
EQT009	15-78 Fourchon Booster Station - Standby Generator			6.18 MM BTU/hr		69 hr/yr (All Year)
EQT010	16-78 Fire Pump (Small Boat Harbor)			1.01 MM BTU/hr		156 hr/yr (All Year)
EQT011	17-78 Operations Center Standby Generator (Clovelly Dome)			5.62 MM BTU/hr		52 hr/yr (All Year)
EQT012	18-78 Emergency Crude Transfer Pump (Clovelly Dome)			6.58 MM BTU/hr		264 hr/yr (All Year)
EQT013	19-78 Portable Diesel Generator (Clovelly Dome)			1.26 MM BTU/hr		52 hr/yr (All Year)
EQT014	20-78 Clovelly Fire Pump			1.92 MM BTU/hr		19 hr/yr (All Year)
EQT015	21-78 Standby Generator - Brine Storage Reservoir (Clovelly Dome)			1.26 MM BTU/hr		26 hr/yr (All Year)
EQT016	23-88 Tank 1 Operations Center - Gasoline Tank (Clovelly Dome)	1000 gallons		9000 gallons/yr		8760 hr/yr (All Year)
EQT017	24-88 Tank 2 Operations Center - Gasoline Tank (Clovelly Dome)	1000 gallons		9000 gallons/yr		8760 hr/yr (All Year)
EQT018	35-88 Fire School Fire Pump (Clovelly Dome)			.69 MM BTU/hr		826 hr/yr (All Year)
EQT019	38-91 Operations Center - Fire Pump (Clovelly Dome)			2.97 MM BTU/hr		52 hr/yr (All Year)
EQT020	5-99 Crude Oil Tankfarm Firewater Pump (Clovelly Dome)			1100 horsepower		52 hr/yr (All Year)
EQT021	1-07 Emergency Generator			755 brake hp		4.5 hr/yr (All Year)
EQT022	2-07 Emergency Generator			755 brake hp		4.5 hr/yr (All Year)
EQT023	3-07 Emergency Generator			755 brake hp		4.5 hr/yr (All Year)
EQT024	4-07 Emergency Generator			755 brake hp		4.5 hr/yr (All Year)
EQT025	5-07 Emergency Generator			364 brake hp		4.5 hr/yr (All Year)
EQT026	6-07 Emergency Generator			207 brake hp		4.5 hr/yr (All Year)
EQT027	1-99 Tank 6401 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
EQT028	2-99 Tank 6402 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
EQT029	3-99 Tank 6403 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
EQT030	4-99 Tank 6404 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
EQT031	6-02 Tank 6405 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
EQT032	7-02 Tank 6410 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
EQT033	8-07 Tank 6403 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
EQT034	9-07 Tank 6404 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
EQT035	10-07 Tank 6407 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
EQT036	11-07 Tank 6408 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)

INVENTORIES

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20070001
Permit Number: 1560-00027-03
Air - Minor (Synthetic) Modification

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT037	12-07 Tank 6411 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
EQT038	13-07 Tank 6412 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
EQT039	14-07 Tank 6413 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
EQT040	15-07 Tank 6414 (Clovelly Dome)	600000 bbl		45000 bbl/day		8760 hr/yr (All Year)
FUG001	10-78 Fugitive Emissions (Clovelly Dome)			Not applicable		8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT27 1-99 Tank 6401 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT28 2-99 Tank 6402 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT29 3-99 Tank 6405 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT30 4-99 Tank 6406 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT31 6-02 Tank 6409 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT32 7-02 Tank 6410 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT33 8-07 Tank 6403 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT34 9-07 Tank 6404 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT35 10-07 Tank 6407 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT36 11-07 Tank 6408 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT37 12-07 Tank 6411 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT38 13-07 Tank 6412 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT39 14-07 Tank 6413 (Clovelly Dome)
GRP003	Crude Oil Storage Tank CAP (Clovelly Dome)	EQT40 15-07 Tank 6414 (Clovelly Dome)
GRP004	Entire Facility	EQT3 1-78 Crude Relief Tank - External Floating Roof (Clovelly Dome)
GRP004	Entire Facility	EQT4 5-78 Slop Oil Tank (Small Boat Harbor)
GRP004	Entire Facility	EQT5 7-78 Turbine Generator (Clovelly Dome)
GRP004	Entire Facility	EQT6 11-78 Fourchon Booster Station Tank No. 1 - Diesel Fuel Oil
GRP004	Entire Facility	EQT7 12-78 Salt Dome Cavities (9), Piping, and Brine Storage Reservoir (Clovelly Dome)
GRP004	Entire Facility	EQT8 13-78 Fourchon Booster Station Tank No. 2 - Diesel Fuel Oil
GRP004	Entire Facility	EQT9 15-78 Fourchon Booster Station - Standby Generator
GRP004	Entire Facility	EQT10 16-78 Fire Pump (Small Boat Harbor)
GRP004	Entire Facility	EQT11 17-78 Operations Center Standby Generator (Clovelly Dome)
GRP004	Entire Facility	EQT12 18-78 Emergency Crude Transfer Pump (Clovelly Dome)
GRP004	Entire Facility	EQT13 19-78 Portable Diesel Generator (Clovelly Dome)
GRP004	Entire Facility	EQT14 20-78 Clovelly Fire Pump
GRP004	Entire Facility	EQT15 21-78 Standby Generator - Brine Storage Reservoir (Clovelly Dome)
GRP004	Entire Facility	EQT16 23-88 Tank 1 Operations Center - Gasoline Tank (Clovelly Dome)

INVENTORIES

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20070001
Permit Number: 1560-00027-03
Air - Minor (Synthetic) Modification

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP004	Entire Facility	EQT17 24-88 Tank 2 Operations Center - Gasoline Tank (Clovelly Dome)
GRP004	Entire Facility	EQT18 35-88 Fire School Fire Pump (Clovelly Dome)
GRP004	Entire Facility	EQT19 38-91 Operations Center - Fire Pump (Clovelly Dome)
GRP004	Entire Facility	EQT20 5-89 Crude Oil Tankfarm Firewater Pump (Clovelly Dome)
GRP004	Entire Facility	EQT21 1-07 Emergency Generator
GRP004	Entire Facility	EQT22 2-07 Emergency Generator
GRP004	Entire Facility	EQT23 3-07 Emergency Generator
GRP004	Entire Facility	EQT24 4-07 Emergency Generator
GRP004	Entire Facility	EQT25 5-07 Emergency Generator
GRP004	Entire Facility	EQT26 6-07 Emergency Generator
GRP004	Entire Facility	EQT27 1-99 Tank 6401 (Clovelly Dome)
GRP004	Entire Facility	EQT28 2-99 Tank 6402 (Clovelly Dome)
GRP004	Entire Facility	EQT29 3-99 Tank 6405 (Clovelly Dome)
GRP004	Entire Facility	EQT30 4-99 Tank 6406 (Clovelly Dome)
GRP004	Entire Facility	EQT31 6-02 Tank 6408 (Clovelly Dome)
GRP004	Entire Facility	EQT32 7-02 Tank 6410 (Clovelly Dome)
GRP004	Entire Facility	EQT33 8-07 Tank 6403 (Clovelly Dome)
GRP004	Entire Facility	EQT34 9-07 Tank 6404 (Clovelly Dome)
GRP004	Entire Facility	EQT35 10-07 Tank 6407 (Clovelly Dome)
GRP004	Entire Facility	EQT36 11-07 Tank 6408 (Clovelly Dome)
GRP004	Entire Facility	EQT37 12-07 Tank 6411 (Clovelly Dome)
GRP004	Entire Facility	EQT38 13-07 Tank 6412 (Clovelly Dome)
GRP004	Entire Facility	EQT39 14-07 Tank 6413 (Clovelly Dome)
GRP004	Entire Facility	EQT40 15-07 Tank 6414 (Clovelly Dome)
GRP004	Entire Facility	FUG1 10-78 Fugitive Emissions (Clovelly Dome)
GRP004	Entire Facility	GRP3 Crude Oil Storage Tank CAP (Clovelly Dome)

Relationships:

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT005	198	509000	4		40	928
EQT009	237	5014	.57		16	850
EQT010	188	809	.21		7	895
EQT011	161	6759	.67		18	865
EQT012	225	5300	.6		16	880
EQT013		212	.33		10	1100

INVENTORIES

AI ID: 4634 - LOOP LLC - Port Complex
 Activity Number: PER20070001
 Permit Number: 1560-00027-03
 Air - Minor (Synthetic) Modification

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT014	238	1943	.42		12	185
EQT015	212	1100	.33		10	1100
EQT016	386.2	790	.21		8	820
EQT018	386.2	790	.21		8	820
EQT020	1.35	104	1.28		6	870
EQT021	307.7	3625	.5		9.38	901
EQT022	307.7	3625	.5		9.38	901
EQT023	220.68	2600	.5		9.83	810
EQT024	220.68	2600	.5		9.83	810
EQT025	135.84	1130	.42		10.25	1056
EQT026	304.9	898	.25		10.58	950

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP004			1364 - Crude Oil Pipeline - Facility with Over 500,000 BBLs Storage Capacity

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 4634 - LOOP LLC - Port Complex
 Activity Number: PER20070001
 Permit Number: 1560-00027-03
 Air - Minor (Synthetic) Modification

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 003 1-78													0.38	0.38	1.65
EQT 004 5-78													< 0.01	< 0.01	0.01
EQT 005 7-78	3.25	3.25	0.52	136.88	136.88	21.90	238.52	238.52	38.16	0.89	0.89	0.14	0.11	0.11	0.02
EQT 006 11-78													0.10	0.10	0.46
EQT 007 12-78													0.40	0.40	1.74
EQT 008 13-78													0.10	0.10	0.46
EQT 009 15-78	1.92	1.92	0.07	1.79	1.79	0.06	27.25	27.25	0.94	5.87	5.87	0.20	2.16	2.16	0.07
EQT 010 16-78	0.31	0.31	0.02	0.29	0.29	0.02	4.47	4.47	0.35	0.96	0.96	0.08	0.35	0.35	0.03
EQT 011 17-78	1.74	1.74	0.05	1.63	1.63	0.04	24.77	24.77	0.64	5.34	5.34	0.14	1.97	1.97	0.05
EQT 012 18-78	2.04	2.04	0.27	1.91	1.91	0.25	29.00	29.00	3.83	6.25	6.25	0.82	2.30	2.30	0.30
EQT 013 19-78	0.39	0.39	0.01	0.37	0.37	0.01	5.56	5.56	0.14	1.20	1.20	0.03	0.44	0.44	0.01
EQT 014 20-78	0.59	0.59	0.01	0.56	0.56	0.01	8.46	8.46	0.08	1.82	1.82	0.02	0.67	0.67	0.01
EQT 015 21-78	0.39	0.39	0.01	0.37	0.37	0.01	5.56	5.56	0.07	1.20	1.20	0.02	0.44	0.44	0.01
EQT 016 23-88													0.06	0.06	0.27
EQT 017 24-88													0.06	0.06	0.27
EQT 018 35-88	0.21	0.21	0.01	0.20	0.20	0.01	3.02	3.02	0.15	0.65	0.65	0.03	0.24	0.24	0.01
EQT 019 38-91	0.92	0.92	0.02	0.86	0.86	0.02	13.11	13.11	0.34	2.82	2.82	0.07	1.04	1.04	0.03
EQT 020 5-99	0.77	0.77	0.02	7.12	7.12	0.19	26.40	26.40	0.69	6.05	6.05	0.16	0.78	0.78	0.02

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 4634 - LOOP LLC - Port Complex
 Activity Number: PER20070001
 Permit Number: 1560-00027-03
 Air - Minor (Synthetic) Modification

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 021 1-07	0.53	0.53	< 0.01	4.89	4.89	0.01	18.12	18.12	0.04	4.15	4.15	0.01	0.53	0.53	< 0.01
EQT 022 2-07	0.53	0.53	< 0.01	4.89	4.89	0.01	18.12	18.12	0.04	4.15	4.15	0.01	0.53	0.53	< 0.01
EQT 023 3-07	0.53	0.53	< 0.01	4.89	4.89	0.01	18.12	18.12	0.04	4.15	4.15	0.01	0.53	0.53	< 0.01
EQT 024 4-07	0.53	0.53	< 0.01	4.89	4.89	0.01	18.12	18.12	0.04	4.15	4.15	0.01	0.53	0.53	< 0.01
EQT 025 5-07	0.80	0.80	< 0.01	0.75	0.75	< 0.01	11.28	11.28	0.03	2.43	2.43	0.01	0.90	0.90	< 0.01
EQT 026 6-07	0.46	0.46	< 0.01	0.42	0.42	< 0.01	6.42	6.42	0.01	1.38	1.38	< 0.01	0.51	0.51	< 0.01
EQT 027 1-08													2730.46	2730.46	
EQT 028 2-08													2730.46	2730.46	
EQT 029 3-08													2730.48	2730.48	
EQT 030 4-08													2730.46	2730.46	
EQT 031 6-02													2730.46	2730.46	
EQT 032 7-02													2730.46	2730.46	
EQT 033 8-07													2730.46	2730.46	
EQT 034 9-07													2730.46	2730.46	
EQT 035 10-07													2730.46	2730.46	
EQT 036 11-07													2730.48	2730.48	
EQT 037 12-07													2730.48	2730.48	
EQT 038 13-07													2730.46	2730.46	

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 4634 - LOOP LLC - Port Complex
 Activity Number: PER20070001
 Permit Number: 1560-00027-03
 Air - Minor (Synthetic) Modification

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 039 14-07														2730.46	
EQT 040 15-07														2730.46	
FUG 001 10-78													< 0.01	< 0.01	< 0.01
GRP 003 TANK CAP													20.18		88.39

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 1.05 tons/yr

SO2: 22.56 tons/yr

NOx: 45.56 tons/yr

CO: 1.76 tons/yr

VOC: 93.82 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 4634 - LOOP LLC - Port Complex
 Activity Number: PER20070001
 Permit Number: 1660-00027-03
 Air - Minor (Synthetic) Modification

All phases

Subject Item	Acetaldehyde			Benzene			Cumene			Ethyl benzene			Formaldehyde		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 003 1-76				0.004	0.004	0.017				< 0.001	< 0.001	0.001			
EQT 006 11-76				< 0.001	< 0.001	0.001				< 0.001	< 0.001	0.001			
EQT 007 12-76				0.002	0.002	0.010	< 0.001	< 0.001	0.002	0.002	0.002	0.007			
EQT 008 13-76				< 0.001	< 0.001	0.001				< 0.001	< 0.001	0.001			
EQT 012 18-76	0.005	0.005	0.001	0.006	0.006	0.001							0.008	0.008	0.001
EQT 016 23-88				< 0.001	< 0.001	0.001									
EQT 017 24-88				< 0.001	< 0.001	0.001									
EQT 027 1-98					29.76			0.273							
EQT 028 2-99					29.76			0.273							
EQT 029 3-99					29.76			0.273							
EQT 030 4-99					29.76			0.273							
EQT 031 6-02					28.76			0.273							
EQT 032 7-02					28.76			0.273							
EQT 033 8-07					29.76			0.273							
EQT 034 9-07					29.76			0.273							
EQT 035 10-07					29.76			0.273							
EQT 036 11-07					29.76			0.273							
EQT 037 12-07					29.76			0.273							

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 4634 - LOOP LLC - Port Complex
 Activity Number: PER20070001
 Permit Number: 1560-00027-03
 Air - Minor (Synthetic) Modification

All phases

Subject Item	Toluene				Xylene (mixed isomers)				n-Hexane			
	Avg lb/hr	Max lb/hr	Tons/Year		Avg lb/hr	Max lb/hr	Tons/Year		Avg lb/hr	Max lb/hr	Tons/Year	
EQT 003 1-78	0.002	0.002	0.009		0.001	0.001	0.001	0.005	0.004	0.004	0.019	
EQT 006 11-78	0.002	0.002	0.011		0.006	0.006	0.027					
EQT 007 12-78	0.004	0.004	0.017		0.006	0.006	0.024	0.024	0.002	0.002	0.007	
EQT 008 13-78	0.002	0.002	0.011		0.006	0.006	0.027	0.027				
EQT 012 16-78												
EQT 016 23-88	< 0.001	< 0.001	0.002						< 0.001	< 0.001	0.001	
EQT 017 24-88	< 0.001	< 0.001	0.002						< 0.001	< 0.001	0.001	
EQT 027 1-89		14.47				5.73				31.95		
EQT 028 2-89		14.47				5.73				31.95		
EQT 029 3-89		14.47				5.73				31.95		
EQT 030 4-89		14.47				5.73				31.95		
EQT 031 6-89		14.47				5.73				31.95		
EQT 032 7-89		14.47				5.73				31.95		
EQT 033 8-07		14.47				5.73				31.95		
EQT 034 9-07		14.47				5.73				31.95		
EQT 035 10-07		14.47				5.73				31.95		
EQT 036 11-07		14.47				5.73				31.95		
EQT 037 12-07		14.47				5.73				31.95		

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 4634 - LOOP LLC - Port Complex
 Activity Number: PER20070001
 Permit Number: 1560-00027-03
 Air - Minor (Synthetic) Modification

All phases

Subject Item	Acetaldehyde			Benzene			Cumene			Ethyl benzene			Formaldehyde		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 038 13-07					29.76			0.273			1.91				
EQT 039 14-07					28.76			0.273			1.91				
EQT 040 15-07					29.76			0.273			1.91				
GRP 003 TANK CAP				0.203		0.890	0.005		0.021	0.026		0.112			

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 4634 - LOOP LLC - Port Complex
 Activity Number: PER20070001
 Permit Number: 1560-00027-03
 Air - Minor (Synthetic) Modification

All phases

Subject Item	Toluene				Xylene (mixed isomers)				n-Hexane			
	Avg lb/hr	Max lb/hr	Tons/Year		Avg lb/hr	Max lb/hr	Tons/Year		Avg lb/hr	Max lb/hr	Tons/Year	
EQT 038 13-07		14.47				5.73				31.95		
EQT 039 14-07		14.47				5.73				31.95		
EQT 040 15-07		14.47				5.73				31.95		
GRP 003 TANK CAP	0.123		0.539		0.083		0.364		0.210		0.920	

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

Acetaldehyde: 0.001 tons/yr
 Benzene: 0.924 tons/yr
 Cumene: 0.023 tons/yr
 Ethyl benzene: 0.124 tons/yr
 Formaldehyde: 0.001 tons/yr
 n-Hexane: 0.948 tons/yr
 Toluene: 0.590 tons/yr
 Xylene (mixed isomers): 0.447 tons/yr

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT003 1-78 Crude Relief Tank - External Floating Roof (Clovally Dome)

- 1 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 2 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seat fabric. [LAC 33:III.2103.D.2.a]
- 3 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 4 Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
- 5 Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
- 6 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
- 7 Secondary seals: All Year Statistical Basis: None specified
Which Months: All Year Statistical Basis: None specified
- 8 Primary seals: All Year Statistical Basis: None specified
Which Months: All Year Statistical Basis: None specified
- 9 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 10 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]
- 11 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 12 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 13 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 14 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 15 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 16 The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)]
- 17 Seal gap area $\leq 10.0 \text{ in}^2/\text{ft}$ (212 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 18 Seal gap width ≤ 1.5 in (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Alt - Minor (Synthetic) Modification

EQT003 1-78 Crude Relief Tank - External Floating Roof (Clovally Dome)

- 19 One end of the primary seal metallic shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 24 inches (61 centimeters) above the stored liquid surface. Subpart Ka. [40 CFR 60.112a(a)(1)(C)]
- 20 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(D)]
- 21 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112a(a)(1)(ii)(B). Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(A)]
- 22 Seal gap area $\leq 1.0 \text{ in}^2/\text{ft}$ (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 23 Seal gap width $\leq 0.5 \text{ in}$ (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 24 There are to be no holes, tears or other openings in the secondary seal or seal fabric. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(C)]
- 25 Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for automatic bleeder vents, rim space vents and leg sleeves with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use or as described in 40 CFR 60.112a(a)(1)(iv). Close automatic bleeder vents at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112a(a)(1)(iii)]
- 26 Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka. [40 CFR 60.112a(a)(1)(iv)]
- 27 Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112a(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40 CFR 60.112a(a)(1)]
- 28 Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Accomplish all primary seal inspections or gap measurements which require the removal or distorting of the secondary seal as rapidly as possible and replace the secondary seal as soon as possible. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(A)]
- Which Months: All Year Statistical Basis: None specified
- 29 Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Subpart Ka. [40 CFR 60.113a(a)(1)(i)(B)]
- Which Months: All Year Statistical Basis: None specified
- 30 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessel on which the measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement process required by 40 CFR 60.113a(a)(1)(ii) and the calculation required by 40 CFR 60.113a(a)(1)(iii). Keep records of each gap measurement at the plant for a period of at least 2 years following the date of measurement. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(D)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20070001
Permit Number: 1560-00027-03
Air - Minor (Synthetic) Modification

EQT003 1-78 Crude Relief Tank - External Floating Roof (Clovally Dome)

- 31 Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113a(a)(1)(iii) or the measured maximum seal gap exceeds the limitations specified by 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a. Subpart Ka. [40 CFR 60.113a(a)(1)(E)]
- 32 Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present. Subpart Ka. [40 CFR 60.113a(a)(1)(iv)]
- 33 Petroleum liquid storage data recordkeeping by electronic or hard copy continuously. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Ka at all times. [40 CFR 60.115a]

EQT005 7-78 Turbine Generator (Clovally Dome)

- 34 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 35 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 36 Operating time \leq 320 hr/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if total annual operating time for the turbine generator exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
Which Months: All Year Statistical Basis: Annual maximum
- 37 Operating time monitored by technically sound method continuously during operation as dictated during emergency events. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 38 Operating time recordkeeping by electronic or hard copy monthly. Keep records of the total operating time of the turbine generator each month, as well as the total operating time of the turbine generator for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]
- 39 Submit report: Due annually, by the 31st of March. Report the total annual operating time of the turbine generator for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 40 Fuel sulfur content \leq 0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)]
Which Months: All Year Statistical Basis: None specified
- 41 Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency, except as specified in 40 CFR 60.334(h)(3). Monitor the total sulfur content of the fuel being fired in the turbine using total sulfur methods described in 40 CFR 60.335(b)(10). Subpart GG. [40 CFR 60.334(h)(1)]
Which Months: All Year Statistical Basis: None specified
- 42 Submit quarterly excess emissions report: Due by the 30th day following the end of each calendar quarter. Report periods during which an exemption provided in 40 CFR 60.332(f) is in effect. Report the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated. Subpart GG. [40 CFR 60.334(j)(3)]
- 43 Include each period during which an exemption provided in 40 CFR 60.332(k) is in effect in the report required in 40 CFR 60.7(c). For each period, report the type, reasons, and duration of the firing of the emergency fuel. Subpart GG. [40 CFR 60.334(j)(4)]
- 44 Submit excess emissions reports and monitor downtime in accordance with 40 CFR 60.7(c). Report excess emissions for all periods of unit operation, including startup, shutdown and malfunction. Subpart GG. [40 CFR 60.334(j)]
- 45 Determine compliance using the test methods and procedures specified in 40 CFR 60.335(a) through (c). Subpart GG. [40 CFR 60.335]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT009 15-78 Fourchon Booster Station - Standby Generator

46 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

47 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT010 16-78 Fire Pump (Small Boat Harbor)

48 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

49 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT011 17-78 Operations Center Standby Generator (Clovelly Dome)

50 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

51 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT012 18-78 Emergency Crude Transfer Pump (Clovelly Dome)

52 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

53 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT013 19-78 Portable Diesel Generator (Clovelly Dome)

54 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

55 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

SPECIFIC REQUIREMENTS

AI ID: 4834 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT014 20-78 Clovelly Fire Pump

56 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

57 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT015 21-78 Standby Generator - Brine Storage Reservoir (Clovelly Dome)

58 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

59 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT016 23-88 Tank 1 Operations Center - Gasoline Tank (Clovelly Dome)

60 Equip with a submerged fill pipe. [LAC 33:III.2103.A]

61 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

62 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

EQT017 24-88 Tank 2 Operations Center - Gasoline Tank (Clovelly Dome)

63 Equip with a submerged fill pipe. [LAC 33:III.2103.A]

64 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

65 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

EQT018 35-88 Fire School Fire Pump (Clovelly Dome)

66 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

67 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT019 38-91 Operations Center - Fire Pump (Clovelly Dome)

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT019 38-91 Operations Center - Fire Pump (Cloveley Dome)

68 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

69 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT020 5-99 Crude Oil Tankfarm Firewater Pump (Cloveley Dome)

70 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

71 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT021 1-07 Emergency Generator

72 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

73 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT022 2-07 Emergency Generator

74 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

75 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT023 3-07 Emergency Generator

76 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

77 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20070001
Permit Number: 1560-00027-03
Air - Minor (Synthetic) Modification

EQT024 4-07 Emergency Generator

- 78 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
79 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT025 5-07 Emergency Generator

- 80 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
81 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT026 6-07 Emergency Generator

- 82 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
83 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT027 1-99 Tank 6401 (Clovelly Dome)

- 84 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
85 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
86 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
87 Seal gap area \leq 1 in²/ft of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
Which Months: All Year Statistical Basis: None specified
88 Seal gap area \leq 10 in²/ft of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
Which Months: All Year Statistical Basis: None specified
89 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
90 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
91 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20070001
Permit Number: 1560-00027-03
Air - Minor (Synthetic) Modification

EQT027 1-99 Tank 6401 (Clovelly Dome)

- 92 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 93 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]
- 94 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 95 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 96 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 97 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e. [LAC 33:III.2103.H.3]
- 98 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 99 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 100 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- 101 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 102 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT027 1-99 Tank 6401 (Cloveley Dome)

- 103 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 104 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 105 Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 106 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
- 107 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 108 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 109 Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 110 Seal gap width $\leq 1.27 \text{ cm}$ for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 111 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 112 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 113 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 114 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 115 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(b)(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 116 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
- Which Months: All Year Statistical Basis: None specified
- 117 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
- 118 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]

SPECIFIC REQUIREMENTS

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Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT027 1-99 Tank 6401 (Clovevely Dome)

- 119 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 120 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 121 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 122 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT028 2-99 Tank 6402 (Clovevely Dome)

- 123 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 124 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 125 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 126 Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
- Which Months: All Year Statistical Basis: None specified
- 127 Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
- Which Months: All Year Statistical Basis: None specified
- 128 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified
- 129 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified
- 130 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified
- 131 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 132 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]
- 133 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT028 2-99 Tank 6402 (Glovelly Dome)

- 134 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 135 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 136 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 137 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 138 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.113b(a)(2)(ii)]
- 139 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.113b(a)(2)]
- 140 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 141 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 142 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 143 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 144 Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 145 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1580-00027-03

Air - Minor (Synthetic) Modification

EQT028 2-99 Tank 6402 (Clovelly Dome)

- 146 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 147 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 148 Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- 149 Seal gap width $\leq 1.27 \text{ cm}$ for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 150 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 151 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 152 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 153 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 154 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(b)(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 155 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)].
- Which Months: All Year Statistical Basis: None specified
- 156 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
- 157 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.115b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- 158 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 159 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 160 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT029 3-99 Tank 6405 (Clovelly Dome)

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT029 3-99 Tank 6405 (Clovelly Dome)

- 161 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 162 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 163 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 164 Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
- Which Months: All Year Statistical Basis: None specified
- 165 Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
- Which Months: All Year Statistical Basis: None specified
- 166 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified
- 167 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified
- 168 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified
- 169 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 170 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]
- 171 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 172 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 173 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 174 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 175 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 176 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT029 3-99 Tank 6405 (Clovelly Dome)

177 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]

178 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]

Which Months: All Year Statistical Basis: None specified

179 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

180 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]

181 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]

Which Months: All Year Statistical Basis: None specified

182 Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)]

Which Months: All Year Statistical Basis: None specified

183 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]

184 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]

185 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(ii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]

186 Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]

Which Months: All Year Statistical Basis: None specified

187 Seal gap width $\leq 1.27 \text{ cm}$ for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]

Which Months: All Year Statistical Basis: None specified

188 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]

189 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]

190 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present.

Subpart Kb. [40 CFR 60.113b(b)(5)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1660-00027-03

Air - Minor (Synthetic) Modification

EQT029 3-99 Tank 6405 (Clovelly Dome)

- 191 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 192 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 193 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
- Which Months: All Year Statistical Basis: None specified
- 194 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
- 195 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- 196 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 197 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 198 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT030 4-99 Tank 6406 (Clovelly Dome)

- 199 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 200 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 201 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformity in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 202 Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
- Which Months: All Year Statistical Basis: None specified
- 203 Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
- Which Months: All Year Statistical Basis: None specified
- 204 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT030 4-99 Tank 6406 (Cloveley Dome)

- 205 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 206 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 207 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2. and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 208 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]
- 209 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 210 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 211 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 212 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e. [LAC 33:III.2103.H.3]
- 213 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 214 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 215 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- 216 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT030 4-99 Tank 6406 (Clovelly Dome)

- 217 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 218 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 219 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 220 Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 221 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
- 222 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 223 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 224 Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 225 Seal gap width $\leq 1.27 \text{ cm}$ for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 226 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 227 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 228 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 229 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 230 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(b)(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 231 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20070001
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Air - Minor (Synthetic) Modification

EQT030 4-99 Tank 6406 (Clovelly Dome)

- 232 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
- 233 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- 234 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 235 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 236 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT031 6-02 Tank 6409 (Clovelly Dome)

- 237 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 238 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 239 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 240 Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
Which Months: All Year Statistical Basis: None specified
- 241 Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
Which Months: All Year Statistical Basis: None specified
- 242 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 243 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 244 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 245 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 246 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT031 6-02 Tank 6409 (Clovelly Dome)

- 247 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 248 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 249 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 250 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e. [LAC 33:III.2103.H.3]
- 251 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 252 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 253 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- 254 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 255 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 256 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 257 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT031 6-02 Tank 6409 (Clovally Dome)

258 Seal gap width \leq 3.81 cm for the width of any portion of the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]

Which Months: All Year Statistical Basis: None specified

259 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(A)]

260 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]

261 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]

262 Seal gap area \leq 21.2 cm²/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]

Which Months: All Year Statistical Basis: None specified

263 Seal gap width \leq 1.27 cm for the width of any portion of the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]

Which Months: All Year Statistical Basis: None specified

264 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]

265 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]

266 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]

267 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]

268 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]

269 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]

Which Months: All Year Statistical Basis: None specified

270 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]

271 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]

272 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQ1031 6-02 Tank 6409 (Cloveley Dome)

- 273 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115(b)(4)]
- 274 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116(b)(c)]

EQ1032 7-02 Tank 6410 (Cloveley Dome)

- 275 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 276 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 277 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 278 Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
Which Months: All Year Statistical Basis: None specified
- 279 Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
Which Months: All Year Statistical Basis: None specified
- 280 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 281 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 282 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 283 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 284 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]
- 285 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 286 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 287 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 288 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e. [LAC 33:III.2103.H.3]
- 289 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT032 7-02 Tank 6410 (Clovally Dome)

- 290 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 291 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- 292 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 293 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 294 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 295 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 296 Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 297 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
- 298 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 299 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 300 Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 301 Seal gap width $\leq 1.27 \text{ cm}$ for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 302 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT032 7-02 Tank 6410 (Clovally Dome)

- 303 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 304 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 305 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 306 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(b)(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 307 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
- Which Months: All Year Statistical Basis: None specified
- 308 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
- 309 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- 310 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 311 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 312 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT033 8-07 Tank 6403 (Clovally Dome)

- 313 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 314 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 315 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 316 Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT033 8-07 Tank 6403 (Clovelly Dome)

- 317 Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
Which Months: All Year Statistical Basis: None specified
- 318 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 319 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 320 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 321 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 322 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]
- 323 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vents, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 324 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 325 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 326 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 327 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 328 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 329 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT033 8-07 Tank 6403 (Clovally Dome)

- 330 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 331 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 332 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 333 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 334 Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 335 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
- 336 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 337 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 338 Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 339 Seal gap width $\leq 1.27 \text{ cm}$ for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 340 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 341 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 342 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 343 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 344 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(b)(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]

SPECIFIC REQUIREMENTS

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Activity Number: PER20070001
Permit Number: 1560-00027-03
Air - Minor (Synthetic) Modification

EQT033 8-07 Tank 6403 (Clovally Dome)

- 345 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
Which Months: All Year Statistical Basis: None specified
- 346 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
- 347 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- 348 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 349 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 350 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT034 9-07 Tank 6404 (Clovally Dome)

- 351 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 352 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 353 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 354 Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
Which Months: All Year Statistical Basis: None specified
- 355 Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
Which Months: All Year Statistical Basis: None specified
- 356 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 357 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 358 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 359 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 360 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]

SPECIFIC REQUIREMENTS

AIID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQ1034 9-07 Tank 6404 (Clovelly Dome)

- 361 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 362 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 363 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 364 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 365 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 366 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 367 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- 368 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
- 369 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 370 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 371 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT034 9-07 Tank 6404 (Clovelly Dome)

372 Seal gap width ≤ 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]

Which Months: All Year Statistical Basis: None specified

373 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]

374 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]

375 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]

376 Seal gap area ≤ 21.2 cm²/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]

Which Months: All Year Statistical Basis: None specified

377 Seal gap width ≤ 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]

Which Months: All Year Statistical Basis: None specified

378 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]

379 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]

380 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]

381 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]

382 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]

383 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]

Which Months: All Year Statistical Basis: None specified

384 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]

385 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]

386 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Mlnor (Synthetic) Modification

EQT034 9-07 Tank 6404 (Cloveley Dome)

- 387 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 388 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT035 10-07 Tank 6407 (Cloveley Dome)

- 389 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 390 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 391 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 392 Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm 2 /0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
- Which Months: All Year Statistical Basis: None specified
- 393 Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm 2 /0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
- Which Months: All Year Statistical Basis: None specified
- 394 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified
- 395 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified
- 396 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified
- 397 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 398 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]
- 399 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 400 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 401 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 402 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 403 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

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Air - Minor (Synthetic) Modification

EQT035 10-07 Tank 6407 (Clovally Dome)

- 404 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 405 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- 406 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 407 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 408 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 409 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 410 Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 411 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
- 412 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 413 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 414 Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 415 Seal gap width $\leq 1.27 \text{ cm}$ for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 416 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT035 10-07 Tank 6407 (Clovally Dome)

- 417 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 418 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 419 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 420 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(b)(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 421 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]

Which Months: All Year Statistical Basis: None specified

- 422 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]

- 423 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]

- 424 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]

- 425 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]

- 426 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT036 11-07 Tank 6408 (Clovally Dome)

- 427 Equip with a submerged fill pipe. [LAC 33:III.2103.B]

- 428 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]

- 429 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]

- 430 Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT036 11-07 Tank 6408 (Cloveally Dome)

- 431 Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d] Which Months: All Year Statistical Basis: None specified
- 432 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- 433 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- 434 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e] Which Months: All Year Statistical Basis: None specified
- 435 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2. and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 436 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]
- 437 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 438 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 439 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 440 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 441 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 442 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 443 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1580-00027-03

Air - Minor (Synthetic) Modification

EQT036 11-07 Tank 6408 (Clovelly Dome)

- 444 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL, and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 445 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL, and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 446 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 447 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 448 Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 449 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
- 450 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 451 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 452 Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 453 Seal gap width $\leq 1.27 \text{ cm}$ for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 454 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 455 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 456 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 457 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 458 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(b)(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]

SPECIFIC REQUIREMENTS

AI ID: 4834 - LOOP LLC - Port Complex
Activity Number: PER20070001
Permit Number: 1560-00027-03
Air - Minor (Synthetic) Modification

EQT036 11-07 Tank 6408 (Clovally Dome)

- 459 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
Which Months: All Year Statistical Basis: None specified
- 460 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
- 461 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- 462 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 463 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 464 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT037 12-07 Tank 6411 (Clovally Dome)

- 465 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 466 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 467 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 468 Seal gap area $\leq 1 \text{ m}^2/\text{ft}$ of tank diameter (6.5 cm/20.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
Which Months: All Year Statistical Basis: None specified
- 469 Seal gap area $\leq 10 \text{ m}^2/\text{ft}$ of tank diameter (65 cm/20.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
Which Months: All Year Statistical Basis: None specified
- 470 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
- 471 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 472 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 473 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 474 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20070001
Permit Number: 1560-00027-03
Air - Minor (Synthetic) Modification

EQ1037 12-07 Tank 6411 (Clovelly Dome)

- 475 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 476 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 477 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 478 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 479 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 480 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 481 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- 482 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 483 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 484 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 485 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20070001
Permit Number: 1560-00027-03
Air - Minor (Synthetic) Modification

EQT037 12-07 Tank 6411 (Clovelly Dome)

- 486 Seal gap width \leq 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 487 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
- 488 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 489 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 490 Seal gap area \leq 21.2 cm²/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 491 Seal gap width \leq 1.27 cm for the width of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- 492 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 493 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 494 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 495 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 496 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 497 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
Which Months: All Year Statistical Basis: None specified
- 498 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
- 499 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- 500 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]

SPECIFIC REQUIREMENTS

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Air - Minor (Synthetic) Modification

EQT037 12-07 Tank 6411 (Clovelly Dome)

- 501 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 502 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT038 13-07 Tank 6412 (Clovelly Dome)

- 503 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 504 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 505 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 506 Seal gap area $\leq 1 \text{ m}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
- 507 Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
- 508 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
- 509 Which Months: All Year Statistical Basis: None specified
- 509 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
- 510 Which Months: All Year Statistical Basis: None specified
- 510 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
- 511 Which Months: All Year Statistical Basis: None specified
- 511 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 512 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]
- 513 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vents, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 514 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 515 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 516 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 517 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

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Permit Number: 1660-00027-03

Air - Minor (Synthetic) Modification

EQ1038 13-07 Tank 6412 (Clovell Dome)

- 518 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 519 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- 520 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 521 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 522 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 523 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 524 Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 525 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
- 526 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 527 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 528 Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 529 Seal gap width $\leq 1.27 \text{ cm}$ for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 530 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]

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Air - Minor (Synthetic) Modification

EQT038 13-07 Tank 6412 (Clovelly Dome)

- 531 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 532 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 533 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 534 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 535 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
- Which Months: All Year Statistical Basis: None specified
- 536 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
- 537 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- 538 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 539 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 540 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT039 14-07 Tank 6413 (Clovelly Dome)

- 541 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 542 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 543 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 544 Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
- Which Months: All Year Statistical Basis: None specified

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Alr - Minor (Synthetic) Modification

EQT039 14-07 Tank 6413 (Clovelly Dome)

- 545 Seal gap area ≤ 10 in²/ft of tank diameter (65 cm/20.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
Which Months: All Year Statistical Basis: None specified
- 546 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 547 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 548 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
Which Months: All Year Statistical Basis: None specified
- 549 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2. and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 550 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]
- 551 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vents, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 552 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 553 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 554 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 555 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 556 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 557 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]

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Air - Minor (Synthetic) Modification

EQI039 14-07 Tank 6413 (Clovelly Dome)

- 558 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 559 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 560 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 561 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 562 Seal gap width $\leq 3.81 \text{ cm}$ for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 563 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(A)]
- 564 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(B)]
- 565 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 566 Seal gap area $\leq 21.2 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 567 Seal gap width $\leq 1.27 \text{ cm}$ for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 568 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 569 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 570 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 571 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 572 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT039 14-07 Tank 6413 (Clovally Dome)

- 573 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
- Which Months: All Year Statistical Basis: None specified
- 574 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
- 575 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement. 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- 576 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 577 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 578 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

EQT040 15-07 Tank 6414 (Clovally Dome)

- 579 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 580 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric. [LAC 33:III.2103.D.2.a]
- 581 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall. [LAC 33:III.2103.D.2.b]
- 582 Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.c]
- Which Months: All Year Statistical Basis: None specified
- 583 Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width. [LAC 33:III.2103.D.2.d]
- Which Months: All Year Statistical Basis: None specified
- 584 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified
- 585 Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified
- 586 Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs. [LAC 33:III.2103.D.2.e]
- Which Months: All Year Statistical Basis: None specified
- 587 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2. [LAC 33:III.2103.D.2.e]
- 588 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts. [LAC 33:III.2103.D.2.e]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT040 15-07 Tank 6414 (Clovelly Dome)

- 589 Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening. [LAC 33:III.2103.D.3]
- 590 Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall. [LAC 33:III.2103.D]
- 591 Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1. [LAC 33:III.2103.H.1]
- 592 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e. [LAC 33:III.2103.H.3]
- 593 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 594 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
- 595 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]
- 596 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 597 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 598 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]
- 599 Seal gap area $\leq 212 \text{ cm}^2/\text{m}$ of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex

Activity Number: PER20070001

Permit Number: 1560-00027-03

Air - Minor (Synthetic) Modification

EQT040 15-07 Tank 6414 (Cloveley Dome)

- 600 Seal gap width \leq 3.81 cm for the width of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 601 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]
- 602 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)]
- 603 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]
- 604 Seal gap area \leq 21.2 cm²/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 605 Seal gap width \leq 1.27 cm for the width of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 606 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 607 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 608 Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 609 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 610 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 611 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
- Which Months: All Year Statistical Basis: None specified
- 612 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
- 613 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- 614 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20070001
Permit Number: 1560-00027-03
Air - Minor (Synthetic) Modification

EQT040 15-07 Tank 6414 (Clovally Dome)

- 615 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115(b)(4)]
- 616 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116(b)(c)]

FUG001 10-78 Fugitive Emissions (Clovally Dome)

- 617 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]

GRP003 Crude Oil Storage Tank CAP (Clovally Dome)

- 618 Throughput \leq 230 MM bbl/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total annual facility-wide crude oil throughput exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 619 Throughput monitored by technically sound method continuously. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 620 Throughput recordkeeping by electronic or hard copy monthly. Keep records of the total facility-wide crude oil throughput each month, as well as the total facility-wide crude oil throughput for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]
- 621 Submit report: Due annually, by the 31st of March. Report the total annual facility-wide crude oil throughput for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

GRP004 Entire Facility

- 622 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 623 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]
- 624 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 625 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 626 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 627 Carbon monoxide \leq 1.76 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 628 Nitrogen oxides \leq 45.56 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

SPECIFIC REQUIREMENTS

AI ID: 4634 - LOOP LLC - Port Complex
Activity Number: PER20070001
Permit Number: 1560-00027-03
Air - Minor (Synthetic) Modification

GRP004 Entire Facility

- 629 Particulate matter (10 microns or less) \leq 1.05 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 630 Sulfur dioxide \leq 22.56 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 631 Benzene \leq 0.924 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 632 VOC, Total \leq 93.82 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 633 Acetaldehyde \leq 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 634 Cumene \leq 0.023 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 635 Ethyl benzene \leq 0.124 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 636 Formaldehyde \leq 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 637 n-Hexane \leq 0.948 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 638 Toluene \leq 0.590 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 639 Xylene (mixed isomers) \leq 0.447 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 640 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 641 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 642 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]

APPENDIX B

**PART 70 OPERATING PERMIT APPLICATION
COMPLETENESS CHECKLIST**

PART 70 OPERATING PERMIT APPLICATION COMPLETENESS CHECKLIST

Instructions: Complete this checklist and submit with the completed air permit application.

LAC 33:III.	Completeness Questions Relative to the Part 70 Permit Application	Yes	No	NA	Location Within the Permit Application
517.A Timely Submittal	Was a Copy of the Application Also Submitted to EPA?	X			
517.B.1.2 Certification	Does the Application include a Certification by a Responsible Official?	X			Section 2.0
517.B.3 Certification	Does the Application Include Certification by a Professional Engineer or their Designee:	X			Section 2.0
517.D.1 Identifying Information	Does the Application Include:				
	1. Company Name, Physical and Mailing Address of Facility?	X			Section 2.0
	2. Map showing Location of the Facility?	X			Figure 1
	3. Owner and Operator Names and Agent?	X			Section 2.0
	4. Name and Telephone Number of Plant Manager or Contact?	X			Section 2.0
517.D.2 SIC Codes, Source Categories	Does the Application Include a Description of the Source's Processes and Products?	X			Section 1.0
	Does the Application Include the Source's SIC Code?	X			Section 2.0
	Does the Application Include EPA Source Category of HAPs if applicable?			X	
517.D.3.6 EIQ Sheets	Has an EIQ Sheet been Completed for each Emission Point whether an Area or Point Source?	X			Section 3.0
517.D.4 Monitoring Devices	Does the Application Include Identification and Description of Compliance Monitoring Devices or Activities?	X			Section 2.0
517.D.5 Revisions and Modifications Only	For Revisions or Modifications, Does the Application include a Description of the Proposed Change and any Resulting Change in Emissions?	X			Section 1.0
517.D.7 General Information	Does the Application Include Information Regarding Fuels, Fuel Use, Raw Materials, Production Rates, and Operating Schedules as necessary to substantiate emission rates?	X			Appendix D
517.D.8 Operating Limitations	Has Information Regarding any Limitations on Source Operation or any Applicable Work Practice Standards been Identified?	X			Section 1.0
517.D.9 Calculations	Are Emission Calculations Provided?	X			Appendix D
517.D.10 Regulatory Review	Does the Application Include a Citation and Description of Applicable Louisiana and Federal Air Quality Requirements and Standards?	X			Section 2.0

LAC 33:III.	Completeness Questions Relative to the Part 70 Permit Application	Yes	No	NA	Location Within the Permit Application
517.D.11 Test Methods	Has a Description of or a Reference to Applicable Test Methods Used to Determine Compliance with Standards been Provided?	X			Section 2.0
517.D.12 Major Sources of TAPs	Does the Application include Information Regarding the Compliance History of Sources Owned or Operated by the Applicant (per LAC 33.III.5111)?			X	
517.D.13 Major Sources of TAPs	Does the Application include a Demonstration to show that the Source Meets all Applicable MACT and Ambient Air Standard Requirements?			X	
517.D.14 PSD Sources Only	If Required by DEQ, Does the Application Include Information Regarding the Ambient Air Impact for Criteria Pollutants as Required for the Source Impact Analysis per LAC 33:III.509.K, L, and M?			X	
517.D.15 PSD Sources Only	If Required by DEQ, Does the Application Include a Detailed Ambient Air Analysis?			X	
517.D.16, 18	Has any Additional Information been Provided?	X			Figure 2
517.D.17 Fees	Has the Fee Code been Identified?	X			Section 2.0
	Is the Applicable Fee Included with the Application?	X			
517.E.1 Additional Part 70 Requirements	Does the Certification Statement Include a Description of the Compliance Status of Each Emission Point in the Source with All Applicable Requirements?	X			Section 2.0
517.E.2 Additional Part 70 Requirements	Does the Certification Statement Include a Statement that the Source will continue to Comply with All Applicable Requirements with which the Source is in Compliance?	X			Section 2.0
517.E.3 Additional Part 70 Requirements	Does the Certification Statement Include a Statement that the Source will, on a timely basis, meet All Applicable Requirements that will Become Effective During the Permit Term?	X			Section 2.0
517.E.4 Additional Part 70 Requirements	Are there Applicable Requirements for which the Source is not in Compliance at the Time of Submittal?		X		
	Does the Application include a Compliance Plan Schedule?			X	
	Does the Schedule Include Milestone Dates for which Significant Actions will occur?			X	
	Does the Schedule Include Submittal Dates for Certified Progress Reports?			X	
517.E.5 Additional Part 70 Requirements Acid Rain	Is this Source Covered by the Federal Acid Rain Program?		X		
	Are the Requirements of LAC 33.III.517.E 1-4 included in the Acid Rain Portion of the Compliance Plan?			X	

LAC 33:III.	Completeness Questions Relative to the Part 70 Permit Application	Yes	No	NA	Location Within the Permit Application
517.E.6 Additional Part 70 Requirements	Have any Exemptions from any Applicable Requirements been Requested?	X			
	Is the List and explanations Provided?	X			Section 2.0
517.E.7 Additional Part 70 Requirements	Does the Application Include a Request for a Permit Shield?		X		
	Does the Request List those Federally Applicable Requirements for which the Shield is Requested along with the Corresponding Draft Permit Terms and conditions which are Proposed to Maintain Compliance?			X	
517.E.8 Additional Part 70 Requirements	Does the Application Identify and Reasonably Anticipated Alternative Operating Scenarios?		X		
	Does the Application include Sufficient Information to Develop permit Terms and Conditions for Each Scenario, Including Source Process and Emissions Data?			X	
517.F Confidentiality	Does the Application Include a Request for Non-Disclosure (Confidentiality)?		X		
525.B. Minor Permit Modifications	Does the Application Include a Listing of New Requirements Resulting for the Change?			X	
	Does the Application Include Certification by the Responsible Official that the Proposed Action Fits the Definition of a Minor Modification as per LAC 33:III.525.A.			X	
	Does the Certification also Request that Minor Modification Procedures be Used?			X	
	Does the Application, for Part 70 Sources, Include the Owner's Suggested Draft Permit and Completed Forms for the Permitting Authority to Use to Notify Affected States?			X	
La. R.S. 30:2018 – PSD/NNSR only	Has a copy of the answers to the questions posed in the Environmental Assessment Statement (Section 26) been sent to the local governing authority at no cost to the local governing authority?			X	
	Has a copy of the answers to the questions posed in the Environmental Assessment Statement (Section 26) been sent to the designated public library at no cost to the designated public library?			X	

APPENDIX C

ENVIRONMENTAL ASSESSMENT STATEMENT

Environmental Assessment Statement

- 1. Have the potential and real adverse environmental effects of the proposed facility been avoided to the maximum extent possible?**

Yes. The LOOP LLC Port Complex currently operates under Permit No. 1560-00027-03 and is requesting permitting under a Louisiana Part 70 Operating Permit with this application. This application includes the addition of six crude oil storage tanks, to be permitted under the existing crude oil storage tank CAP, and the addition of one emergency diesel generator.

The potential and real adverse environmental effects of the proposed project have been avoided to the maximum extent possible. As discussed below, the facility is not anticipated to have any adverse environmental impacts.

The potential impacts from air emissions from the facility are minimal and will not cause any adverse impacts. All applicable federal and state regulations are complied within a timely manner and are utilized to minimize air emissions.

- 2. Does a cost benefit analysis of the environmental impact costs balanced against the social and economic benefits of the proposed facility demonstrate that the latter outweighs the former?**

Yes. The social and economic benefits of the LOOP Complex greatly outweigh its environmental impact. The facility is subject to strict requirements to control air emissions. Controls are in place to prevent any other environmental media from being affected by the facility's operations. The LOOP Complex is not anticipated to have an adverse impact on the environment. The facility has significant social and economic benefits, on a local and national scale, with minimal environmental impact.

- 3. Are there alternative projects which would offer more protection to the environment than the proposed facility without unduly curtailing non-environmental benefits?**

The proposed project is planned for the existing LOOP Complex. There are no alternative projects (i.e., technologies) which would offer more protection to the environment than the proposed project without unduly curtailing non-environmental benefits.

- 4. Are there alternative sites which would offer more protection to the environment than the proposed facility site without unduly curtailing non-environmental benefits?**

No, it is an existing facility which is zoned for industrial use. Any other site would not offer more protection to the environment than the proposed project site without unduly curtailing non-environmental benefits.

- 5. Are there mitigating measures which would offer more protection to the environment than the facility as proposed without unduly curtailing non-environmental benefits?**

No, there are no mitigating measures which would offer more protection to the environment than the project as proposed without unduly curtailing non-environmental benefits. The facility meets all state and federally applicable requirements to minimize emissions of regulated air pollutants. Emissions associated with operations at the facility have been minimized.

APPENDIX D

EMISSION CALCULATIONS

Crude Oil Storage Tank CAP

THEORETICAL OPERATING SCENARIO EMISSIONS SUMMARY

Clovelly Dome, Lafourche Parish, Louisiana
LOOP LLC

Tank Throughput 25,000 bbls/day
Tank Throughput 9.1 MMbbls/yr
Number of Tanks 20 310-ft diameter

Emission Summary for Tank CAP

Pollutant	Total Annual Emissions (tpy)	Average Hourly Emissions (lbs/hr)
TOTAL VOCs	175.28	40.02
Benzene	1.03	0.234
Cumene (isopropyl benzene)	0.02	0.004
Ethylbenzene	0.11	0.025
n-Hexane	1.07	0.245
Toluene	0.58	0.133
Xylenes	0.35	0.080

Emission Summary Per Tank

Pollutant	Annual Throughput Per Tank (MMbbls)	Standing Losses per tank (lb/yr)	Withdrawal Losses per MMbbl throughput (lb/MMbbl)	Annual Operating Emissions (lbs/yr)	Landing Losses (lbs/event)	Landing Losses Events/yr	Total Annual Emissions (tpy)	Maximum Hourly Emissions (lbs/hr)
TOTAL VOCs	9.13	7,830	128.59	9,012.43	6,560.20	1.3	8.76	6,262.21
Benzene				52.80	38.24		0.05	30.88
Cumene (isopropyl benzene)				1.53	0.289		0.001	0.231
Ethylbenzene				7.78	2.54		0.01	2.03
n-Hexane				53.83	41.08		0.06	32.94
Toluene				34.09	18.62		0.03	14.93
Xylenes				25.43	7.42		0.02	5.95
TOTAL TAP				175.44	108.19		0.16	

NOTES:
Standing Losses (Rim Seal Losses + Roof Fitting Losses) and Withdrawal Losses from TANKS 4.0.9d Program Emission Report.
Annual Operating Emissions = Standing Losses (lb/yr) + Withdrawal Losses per MMbbl throughput (lb/yr) * Throughput (MMbbls).
Speciated Annual Operating Emissions = Total VOC Annual Operating Emissions * Mass Fraction calculated from TANKS Emission Report.
Maximum Hourly Emissions = Refilling Loss from Landing Loss calculations.

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification
User Identification: Crude Oil Storage Tank
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: External Floating Roof Tank
Description: Crude Oil Storage Tank

Tank Dimensions
Diameter (ft): 310.00
Volume (gallons): 25,200,000.00
Turnovers: 15.21

Paint Characteristics
Internal Shell Condition: Light Rust
Shell Color/Shade: White/White
Shell Condition: Good

Roof Characteristics
Type: Pontoon
Fitting Category: Detail

Tank Construction and Rim-Seal System
Construction: Welded
Primary Seal: Mechanical Shoe
Secondary Seal: Rim-mounted

Deck Fitting/Status	Quantity
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	4
Automatic Gauge Float Well/Bolted Cover, Gasketed	1
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	6
Unslotted Guide-Pole Well/Gasketed Sliding Cover	2
Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.	1
Roof Leg (3-in. Diameter)/Adjustable, Pontoon Area, Gasketed	38
Roof Leg (3-in. Diameter)/Adjustable, Center Area, Gasketed	151
Roof Drain (3-in. Diameter)/90% Closed	6

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d
Emissions Report - Detail Format

Liquid Contents of Storage Tank

Crude Oil Storage Tank - External Floating Roof Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Crude Oil RVP 8	All	69.99	64.84	75.14	68.06	6.5139	N/A	N/A	50.0000	0.0033	0.0001	207.00	Option 4: RVP=8
1,2,4-Trimethylbenzene						0.0302	N/A	N/A	120.1900	0.0033	0.0001	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
2,2,4-Trimethylpentane (isooctane)						0.7891	N/A	N/A	114.2300	0.0010	0.0005	114.23	Option 2: A=6.8118, B=1257.84, C=220.74
Benzene						1.5308	N/A	N/A	78.1100	0.0060	0.0058	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Cyclohexane						1.5780	N/A	N/A	84.1600	0.0070	0.0070	84.16	Option 2: A=6.841, B=1201.53, C=222.65
Ethylbenzene						0.1524	N/A	N/A	106.1700	0.0040	0.0004	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	N/A	N/A	86.1700	0.0040	0.0063	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Isopropyl benzene						0.0693	N/A	N/A	120.2000	0.0010	0.0000	120.20	Option 2: A=6.9366, B=1460.793, C=207.78
Toluene						0.4474	N/A	N/A	92.1300	0.0100	0.0028	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						7.2120	N/A	N/A	49.4912	0.9497	0.9759	220.76	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (-m)						0.1273	N/A	N/A	106.1700	0.0140	0.0011	106.17	

TANKS 4.0.9d

Emissions Report - Detail Format

Detail Calculations (AP-42)

Crude Oil Storage Tank - External Floating Roof Tank Lafourche Parish, Louisiana

Annual Emission Calculations				
Rim Seal Losses (lb):	3,463.0095			
Seal Factor A (lb-mole/ft-yr):	0.5000			
Seal Factor B (lb-mole/ft-yr (mph) ^{1/4}):	0.4000			
Average Wind Speed (mph):	8.1500			
Seal-related Wind Speed Exponent:	1.0000			
Value of Vapor Pressure Function:	0.1447			
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	6.5139			
Tank Diameter (ft):	310.0000			
Vapor Molecular Weight (lb/lb-mole):	50.0000			
Product Factor:	0.4000			
Withdrawal Losses (lb):	1,182.4764			
Annual Net Throughput (gal/yr):	383,250,000.0000			
Shell Clingage Factor (bb/1000 sqft):	0.0060			
Average Organic Liquid Density (lb/gal):	7.1000			
Tank Diameter (ft):	310.0000			
Roof Fitting Losses (lb):	4,366.9368			
Value of Vapor Pressure Function:	0.1447			
Vapor Molecular Weight (lb/lb-mole):	50.0000			
Product Factor:	0.4000			
Tot. Roof Fitting Loss Fact (lb-mole/yr):	1,508.9409			
Average Wind Speed (mph):	8.1500			
Total Losses (lb):	9,012.4227			
Roof Fitting/Status	Quantity	KFa (lb-mole/yr)	Roof Fitting Loss Factors KFb (lb-mole/yr mph ^{1/4})	Losses (lb)
Access Hatch (24-in. Diam./Bolted Cover, Gasketed	4	1.60	0.00	18.5219
Automatic Gauge Float Well/Bolted Cover, Gasketed	1	2.80	0.00	8.1033
Vacuum Breaker (10-in. Diam./Weighted Mech. Actuation, Gask	6	6.20	1.20	214.7406
Unslotted Guide-Pole Well/Gasketed Sliding Cover	2	25.00	13.00	3,613.9909
Gauge-Hatch/Sample Well (8-in. Diam./Weighted Mech. Actuation, Gask	1	0.47	0.02	1.6736
Roof Leg (3-in. Diameter)/Adjustable, Portion Area, Gasketed	38	1.30	0.08	170.2519
Roof Leg (3-in. Diameter)/Adjustable, Center Area, Gasketed	151	0.53	0.11	291.8821
Roof Drain (3-in. Diameter)/90% Closed	6	1.80	0.14	47.7625

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

Crude Oil Storage Tank - External Floating Roof Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)					Total Emissions
	Rim Seal Loss	Withdrawl Loss	Deck Fitting Loss	Deck Seam Loss		
Crude Oil RVP 8	3,463.01	1,182.48	4,366.94	0.00		9,012.42
Hexane (-n)	21.72	4.73	27.38	0.00		53.83
2,2,4-Trimethylpentane (isooctane)	1.74	1.18	2.19	0.00		5.11
Benzene	20.22	7.09	25.49	0.00		52.80
1,2,4-Trimethylbenzene	0.22	3.90	0.28	0.00		4.40
Cyclohexane	24.31	8.28	30.66	0.00		63.25
Ethylbenzene	1.34	4.73	1.69	0.00		7.76
Isopropyl benzene	0.15	1.18	0.19	0.00		1.53
Xylene (-m)	3.92	16.55	4.95	0.00		25.43
Toluene	9.85	11.82	12.42	0.00		34.09
Unidentified Components	3,379.54	1,123.00	4,261.69	0.00		8,764.23

STORAGE TANK LANDING LOSSES

LOOP LLC

Assumptions:

Loss from Emptying and Refilling EFR, Partial Liquid Heel Tanks

Description	Quantity	Unit	Basis
n_d = number of days roof is landed	1	day	Minimum Basis for Reference Methodology
M_v = Vapor Molecular Weight	50.00	lb/lb-mole	TANKS 4.0.9d Default
RVP = Reid Vapor Pressure	8.00	psia	TANKS 4.0.9d Default
W_L = Liquid Density	7.10	lb/gal	TANKS 4.0.9d Default
H_L = Height of Liquid Heel	0.50	ft	Conservative Estimate
P_a = Atmospheric Pressure	14.70	psia	Standard Atmospheric Pressure
R = Ideal Gas Constant	10.73	psia-ft ³ per lb-mole-°R	

Site Specific Data:

Description	Quantity	Unit	Basis
T_{max} = Daily Maximum Ambient Temperature	537.70	°R, Annual Average for New Orleans, Louisiana	7.1, Table 7.1-7
T_{min} = Daily Minimum Ambient Temperature	518.70	°R, Annual Average for New Orleans, Louisiana	7.1, Table 7.1-7
a = Tank Paint Solar Absorbance	0.17	White Paint Color	7.1, Table 7.1-6
I = Insolation	1437	Btu/ft ² -d, Annual Average New Orleans, Louisiana	7.1, Table 7.1-7

Given:

Description	Quantity	Unit
D = Tank Diameter	310.00	ft
H_r = Roof Leg Setting	3.00	ft

Other Calculated Parameters:

Description	Quantity	Unit, [Formula]	Basis
A = Constant in Vapor Pressure Equation	10.81	dimensionless, $[A = 12.82 - 0.9672 \cdot \ln(RVP)]$	7.1, Figure 7.1-16
B = Constant in Vapor Pressure Equation	4732.40	°R, $[B = 7261 - 1216 \cdot \ln(RVP)]$	7.1, Figure 7.1-16
P = True Vapor Pressure	6.57	psia, $[P = \exp(A - (B/T_{avg}))]$	7.1, Equation 1-12a
P^* = Vapor Pressure Function	0.15	dimensionless, $[P/P_a / (1 + (P/P_a)^{0.5})^2]$	Equation 12, API Document
T_{avg} = Daily Average Ambient Temperature	528.20	°R, $[T_{avg} = (T_{max} + T_{min})/2]$	7.1, Equation 1-14
ΔT_{LV} = Daily Vapor Temperature Range	20.52	°R, $[0.72(T_{max} - T_{min}) + 0.028a]$	Equation 7, API Document
T_{LA} = Daily Average Liquid Surface Temperature	530.14	°R, $[0.44T_{avg} + 0.56T_B + 0.0079a]$	7.1, Equation 1-13
T_B = Liquid Bulk Temperature	528.22	°R, $[T_B = T_{avg} + 6 \cdot a - 1]$	7.1, Equation 1-15
h_v = Height of Vapor Space	2.50	ft, [height of deck above tank bottom - height of liquid heel]	Equation 25, API Document
K_G = Standing Idle Saturation Factor	0.53	dimensionless, $[1/1 + 0.053(P h_v)]$	Equation 8, API Document
K_E = Vapor Space Expansion Factor	0.18	dimensionless, $[\Delta T_{LV} T_{avg} (1 + 0.5BP/T_{avg}(Pa-P))]$	Equation 6, API Document
A_f = Floor Area	75,477	ft ² , $[A_f = \pi \cdot (D/2)^2]$	7.1, Equation 2-32
V_v = Vapor Volume	188,692	ft ³ , $[V_v = A_f \cdot h_v]$	Equation 23, API document
C_d = Filling Saturation Correction Factor	0.96	dimensionless	

STORAGE TANK LANDING LOSSES

LOOP LLC

LANDING LOSS EMISSIONS PER EVENT:

	Quantity	Unit, Formula	Basis
S = Filling Saturation Factor		0.6 dimensionless	Partial Liquid Heel
L _s = Standing Idle Loss	1,288 lb.	[L _s = 0.57n _d D(P*)M _v]	Equation 14 & 10, API Document
L _r = Refilling Loss	6,252 lb.	[L _r = (PV _v /RT _{avg})M _v (C _s S)]	Equation 21, API Document
L _T = Total Roof Landing and Refilling Loss	8,660 lb.	[L _T = L _s + L _r]	Equation 1, API Document

SPECIATION (TANKS 4.09.d Crude Oil RVP 8)

	Vapor Mass Fraction	EMISSIONS (lb)
Benzene	0.0058	38.24
Cumene (Isopropyl benzene)	0.0000	0.289
Ethylbenzene	0.0004	2.54
n-Hexane	0.0063	41.08
Toluene	0.0028	18.62
Xylenes	0.0011	7.42
	0.0165	108.19
Iso-octane	0.0005	3.29
1,2,4-Trimethylbenzene	0.0001	0.415
Cyclohexane	0.0070	45.99
Unspecified VOCs	0.9759	6392.32
	1.0000	6550.20
TOTAL TAP		
TOTAL VOC		

REFERENCES:

AP-42 Section 7.1, Organic Liquid Storage Tanks, November 2006
 Evaporative Loss from Storage Tank Floating Roof Landings, Technical Report 2567, American Petroleum Institute, April 2005

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: 1-10 520 HP Emergency Generator

Given:

Brake Horsepower 520 bhp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x Average Emission Factor [g/hp-hr] / Conversion Factor [454 g/lb]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

Pollutant	Vendor Emission Factor ⁽²⁾ [g/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.56	0.64	0.64	0.16
SO ₂ ⁽¹⁾	0.00205	0.002	0.002	0.001
NO _x	4.35	4.98	4.98	1.25
CO	0.54	0.62	0.62	0.15
Total VOC	0.06	0.07	0.07	0.02

VOC TAP Speciation ⁽³⁾	Emission Factor ⁽³⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	5.37E-06	0.003	0.003	0.001
Benzene	6.53E-06	0.003	0.003	0.001
Formaldehyde	8.26E-06	0.004	0.004	0.001
Toluene	2.86E-06	0.001	0.001	0.000
Xylenes	2.00E-06	0.001	0.001	0.000

Notes:

(1) Emission factor based on EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines.

(2) Emission factor based on Cummins Exhaust Data, full standby emission rates.

(3) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04 and converted using 7,000 Btu/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: **EQT003**
1-78 Crude Relief Tank

Given:
Contents Crude Oil RVP 5
Tank Type External Floating Roof
Diameter 100 ft
Throughput 23,100,000 gal/yr

Calculation Methodology:
EPA TANKS 4.0.9d Program Software
Average Hourly Rate [lb/hr] = TANKS Emission Report / Conversion Factor [8760 hrs/yr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation:

Pollutant	TANKS Emission Report [lbs/yr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	3306.16	0.38	0.38	1.65
Benzene	34.96	0.004	0.004	0.017
Cumene (Isopropyl benzene)	0.47	0.0001	0.0001	0.0002
Ethylbenzene	3.12	0.0004	0.0004	0.002
n-Hexane	37.01	0.004	0.004	0.019
Toluene	18.59	0.002	0.002	0.009
Xylenes	9.62	0.001	0.001	0.005

TANKS 4.0.9d **Emissions Report - Detail Format** **Tank Identification and Physical Characteristics**

Identification
 User Identification: 1-78
 City: Lafourche Parish
 State: Louisiana
 Company: LOOP LLC
 Type of Tank: External Floating Roof Tank
 Description: Crude Relief Tank

Tank Dimensions
 Diameter (ft): 100.00
 Volume (gallons): 2,310,000.00
 Turnovers: 10.00

Paint Characteristics
 Internal Shell Condition: Light Rust
 Shell Color/Shade: White/White
 Shell Condition: Good

Roof Characteristics
 Type: Pontoon
 Fitting Category: Typical

Tank Construction and Rim-Seal System
 Construction: Welded
 Primary Seal: Mechanical Shoe
 Secondary Seal: Rim-mounted

Deck Fitting/Status	Quantity
Access Hatch (24-in. Diam./Bolted Cover, Gasketed	1
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1
Vacuum Breaker (10-in. Diam./Weighted Mech. Actuation, Gask.	1
Unslotted Guide-Pole Well/Ungasketed Sliding Cover	1
Gauge-Hatch/Sample Well (8-in. Diam./Weighted Mech. Actuation, Gask.	1
Roof Leg (3-in. Diameter)/Adjustable, Pontoon Area, Ungasketed	17
Roof Leg (3-in. Diameter)/Adjustable, Center Area, Ungasketed	16
Rim Vent (6-in. Diameter)/Weighted Mech. Actuation, Gask.	1

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d **Emissions Report - Detail Format**

Liquid Contents of Storage Tank

1-78 - External Floating Roof Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Crude oil (RVP 5)	All	69.99	64.84	75.14	68.06	3.4885	N/A	N/A	50.0000	0.0033	0.0001	207.00	Option 4: RVP=5
1,2,4-Trimethylbenzene						0.0302	N/A	N/A	120.1900	0.0010	0.0009	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
2,2,4-Trimethylpentane (isooctane)						0.7891	N/A	N/A	114.2300	0.0010	0.0009	114.23	Option 2: A=6.8118, B=1257.84, C=220.74
Benzene						1.5308	N/A	N/A	78.1100	0.0060	0.0109	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Cyclohexane						1.5780	N/A	N/A	84.1600	0.0070	0.0131	84.16	Option 2: A=6.841, B=1201.53, C=222.65
Ethylbenzene						0.1524	N/A	N/A	106.1700	0.0040	0.0007	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (n)						2.4667	N/A	N/A	86.1700	0.0040	0.0117	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Isopropyl benzene						0.0693	N/A	N/A	120.2000	0.0010	0.0001	120.20	Option 2: A=6.93666, B=1460.793, C=207.78
Toluene						0.4474	N/A	N/A	92.1300	0.0100	0.0053	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						3.8146	N/A	N/A	49.0381	0.9497	0.9550	220.76	
Xylene (m)						0.1273	N/A	N/A	106.1700	0.0140	0.0021	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d **Emissions Report - Detail Format** **Detail Calculations (AP-42)**

1-78 - External Floating Roof Tank **Lafourche Parish, Louisiana**

Annual Emission Calculations

Rim Seal Losses (lb):	520.1711
Seal Factor A (lb-mole/ft-yr):	0.6000
Seal Factor B (lb-mole/ft-yr (mph) ⁿ):	0.4000
Average Wind Speed (mph):	8.1500
Seal-related Wind Speed Exponent:	1.0000
Value of Vapor Pressure Function:	0.0674
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	3.4885
Tank Diameter (ft):	100.0000
Vapor Molecular Weight (lb/lb-mole):	50.0000
Product Factor:	0.4000
Withdrawal Losses (lb):	220.9449
Annual Net Throughput (gal/yr):	23,100,000.0000
Shell Clingage Factor (bbl/1000 sqft):	0.0060
Average Organic Liquid Density (lb/gal):	7.1000
Tank Diameter (ft):	100.0000
Roof Fitting Losses (lb):	2,565.0430
Value of Vapor Pressure Function:	0.0674
Vapor Molecular Weight (lb/lb-mole):	50.0000
Product Factor:	0.4000
Tot. Roof Fitting Loss Fact (lb-mole/yr):	1,903.4247
Average Wind Speed (mph):	8.1500
Total Losses (lb):	3,306.1590

Roof Fitting/Status	Quantity	KFa(lb-mole/yr)	Roof Fitting Loss Factors KFb(lb-mole/(yr mph ⁿ n))	m	Losses(lb)
Access Hatch (24-in. Diam.)/Bolted Cover, Gasketed	1	1.60	0.00	0.00	2.1561
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1	14.00	5.40	1.10	68.2785
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1	6.20	1.20	0.94	16.6655
Unslotted Guide-Pole Well/Ungasketed Sliding Cover	1	31.00	150.00	1.40	2,356.0139
Gauge-Hatch/Sample Well (8-in. Diam.)/Weighted Mech. Actuation, Gask.	1	0.47	0.02	0.97	0.7793
Roof Leg (3-in. Diameter)/Adjustable, Pontoon Area, Ungasketed	17	2.00	0.37	0.91	87.1612
Roof Leg (3-in. Diameter)/Adjustable, Center Area, Ungasketed	16	0.82	0.53	0.14	32.2629
Rim Vent (6-in. Diameter)/Weighted Mech. Actuation, Gask.	1	0.71	0.10	1.00	1.7256

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

1-78 - External Floating Roof Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)					Total Emissions
	Rim Seal Loss	Withdrawl Loss	Deck Fitting Loss	Deck Seam Loss		
Crude oil (RVP 5)	520.17	220.94	2,565.04	0.00		3,306.16
Hexane (-n)	6.09	0.88	30.03	0.00		37.01
2,2,4-Trimethylpentane (isooctane)	0.49	0.22	2.40	0.00		3.11
Benzene	5.67	1.33	27.96	0.00		34.96
1,2,4-Trimethylbenzene	0.06	0.73	0.30	0.00		1.09
Cyclohexane	6.82	1.55	33.63	0.00		41.99
Ethylbenzene	0.38	0.88	1.86	0.00		3.12
Isopropyl benzene	0.04	0.22	0.21	0.00		0.47
Xylene (-m)	1.10	3.09	5.43	0.00		9.62
Toluene	2.76	2.21	13.62	0.00		18.59
Unidentified Components	496.76	209.83	2,449.61	0.00		3,156.20

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: **EQT004**
5-78 Small Boat Harbor Slop Oil Tank

Given:

Contents Wash water, lube oil, small quantities of diesel
Tank Type Vertical Fixed Roof
Volume 79,315 gal
Throughput 84,000 gal/yr

Calculation Methodology:

EPA TANKS 4.0.9d Program Software
Average Hourly Rate [lb/hr] = TANKS Emission Report / Conversion Factor [8760 hrs/yr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation:

Pollutant	TANKS Emission Report [lbs/yr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	19.51	0.002	0.002	0.01

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification
User Identification: 5-78
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Vertical Fixed Roof Tank
Description: Small Boat Harbor Slop Oil Tank

Tank Dimensions
Shell Height (ft): 16.00
Diameter (ft): 30.00
Liquid Height (ft): 15.00
Avg. Liquid Height (ft): 8.00
Volume (gallons): 79,315.28
Turnovers: 1.06
Net Throughput(gal/yr): 84,000.00
Is Tank Heated (y/n): N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition: Good
Roof Color/Shade: White/White
Roof Condition: Good

Roof Characteristics
Type: Cone
Height (ft): 0.00
Slope (ft/ft) (Cone Roof): 0.06

Breather Vent Settings
Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

5-78 - Vertical Fixed Roof Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000			188.00	Option 1: VP60 = .0065 VP70 = .009

TANKS 4.0.9d **Emissions Report - Detail Format** **Detail Calculations (AP-42)**

5-78 - Vertical Fixed Roof Tank **Lafourche Parish, Louisiana**

Annual Emission Calculations

Standing Losses (lb): 17.1754
 Vapor Space Volume (cu ft): 5,875.7600
 Vapor Density (lb/cu ft): 0.0002
 Vapor Space Expansion Factor: 0.0391
 Vented Vapor Saturation Factor: 0.9961

Tank Vapor Space Volume:
 Vapor Space Volume (cu ft): 5,875.7600
 Tank Diameter (ft): 30.0000
 Vapor Space Outage (ft): 8.3125
 Tank Shell Height (ft): 16.0000
 Average Liquid Height (ft): 8.0000
 Roof Outage (ft): 0.3125

Roof Outage (Cone Roof)
 Roof Outage (ft): 0.3125
 Roof Height (ft): 0.0000
 Roof Slope (ft/ft): 0.0625
 Shell Radius (ft): 15.0000

Vapor Density
 Vapor Density (lb/cu ft): 0.0002
 Vapor Molecular Weight (lb/lb-mole): 130.0000
 Vapor Pressure at Daily Average Liquid
 Surface Temperature (psia): 0.0090
 Daily Avg. Liquid Surface Temp. (deg. R): 529.6574
 Daily Average Ambient Temp. (deg. F): 68.0375
 Ideal Gas Constant R
 (psia cuft / (lb-mol-deg R)): 10.731
 Liquid Bulk Temperature (deg. R): 527.7275
 Tank Paint Solar Absorptance (Shell): 0.1700
 Tank Paint Solar Absorptance (Roof): 0.1700
 Daily Total Solar Insulation
 Factor (Btu/sqft day): 1,443.5256

Vapor Space Expansion Factor
 Vapor Space Expansion Factor:
 Daily Vapor Temperature Range (deg. R): 0.0391
 Daily Vapor Pressure Range (psia): 20.5932
 Breather Vent Press. Setting Range(psia): 0.0028
 Vapor Pressure at Daily Average Liquid
 Surface Temperature (psia): 0.0090
 Vapor Pressure at Daily Minimum Liquid
 Surface Temperature (psia): 0.0077
 Vapor Pressure at Daily Maximum Liquid
 Surface Temperature (psia): 0.0105
 Daily Avg. Liquid Surface Temp. (deg R): 529.6574
 Daily Min. Liquid Surface Temp. (deg R): 524.5091
 Daily Max. Liquid Surface Temp. (deg R): 534.8057
 Daily Ambient Temp. Range (deg. R): 19.0583

Vented Vapor Saturation Factor
 Vented Vapor Saturation Factor:
 Vapor Pressure at Daily Average Liquid
 Surface Temperature (psia): 0.9961
 Vapor Pressure at Daily Average Liquid
 Surface Temperature (psia): 0.0090

Vapor Space Outage (ft): 8.3125

Working Losses (lb): 2.3392

Vapor Molecular Weight (lb/lb-mole): 130.0000

Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0080

Annual Net Throughput (gal/yr): 84,000.0000

Annual Turnovers: 1.0591

Turnover Factor: 1.0000

Maximum Liquid Volume (gal): 79,315.2772

Maximum Liquid Height (ft): 15.0000

Tank Diameter (ft): 30.0000

Working Loss Product Factor: 1.0000

Total Losses (lb): 19.5145

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

5-78 - Vertical Fixed Roof Tank
Lafourche Parish, Louisiana

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	2.34	17.18	19.51

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: **EQT006**
11-78 Fourchon Booster Station No. 2 Fuel Tank No.1

Given:

Contents Diesel
Tank Type Vertical Fixed Roof
Volume 1,175,041 gal
Throughput 23,000,000 gal/yr

Calculation Methodology:

EPA TANKS 4.0.9d Program Software
Average Hourly Rate [lb/hr] = TANKS Emission Report / Conversion Factor [8760 hrs/yr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation:

Pollutant	TANKS Emission Report [lbs/yr]	Average Hourly Rate [lb/hr]		Max Hourly Rate [lb/hr]		Emission Rate [tpy]	
		0.10		0.10		0.46	
Total VOC	916.45	0.0002		0.0002		0.001	
Benzene	1.80	0.0003		0.0003		0.001	
Ethylbenzene	2.92	0.00004		0.00004		0.0002	
n-Hexane	0.36	0.002		0.002		0.011	
Toluene	21.09	0.006		0.006		0.027	
Xylenes	54.40						

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification
User Identification: 11-78
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Vertical Fixed Roof Tank
Description: Fourchon Booster Station No. 2 Fuel Tank No.1

Tank Dimensions
Shell Height (ft): 22.00
Diameter (ft): 100.00
Liquid Height (ft) : 20.00
Avg. Liquid Height (ft): 11.00
Volume (gallons): 1,175,041.14
Turnovers: 19.57
Net Throughput(gal/yr): 23,000,000.00
Is Tank Heated (y/n): N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition: Good
Roof Color/Shade: White/White
Roof Condition: Good

Roof Characteristics
Type: Cone
Height (ft): 0.00
Slope (ft/ft) (Cone Roof): 0.06

Breather Vent Settings
Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d **Emissions Report - Detail Format** **Liquid Contents of Storage Tank**

11-78 - Vertical Fixed Roof Tank **Lafourche Parish, Louisiana**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000			188.00	Option 1: VP60 = .0065 VP70 = .009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0100	0.0485	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	

TANKS 4.0.9d **Emissions Report - Detail Format** **Detail Calculations (AP-42)**

11-78 - Vertical Fixed Roof Tank **Lafourche Parish, Louisiana**

Annual Emission Calculations	
Standing Losses (lb)	275.9823
Vapor Space Volume (cu ft)	94,575.0287
Vapor Density (lb/cu ft)	0.0002
Vapor Space Expansion Factor	0.0391
Vented Vapor Saturation Factor	0.9943
Tank Vapor Space Volume	
Vapor Space Volume (cu ft)	94,575.0287
Tank Diameter (ft)	100.0000
Vapor Space Outage (ft)	12.0417
Tank Shell Height (ft)	22.0000
Average Liquid Height (ft)	11.0000
Roof Outage (ft)	1.0417
Roof Outage (Cone Roof)	
Roof Outage (ft)	1.0417
Roof Height (ft)	0.0000
Roof Slope (ft/ft)	0.0625
Shell Radius (ft)	50.0000
Vapor Density	
Vapor Density (lb/cu ft)	0.0002
Vapor Molecular Weight (lb/lb-mole)	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	0.0090
Daily Avg. Liquid Surface Temp. (deg. R)	529.6574
Daily Average Ambient Temp. (deg. F)	68.0375
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R))	10.731
Liquid Bulk Temperature (deg. R)	527.7275
Tank Paint Solar Absorptance (Shell)	0.1700
Tank Paint Solar Absorptance (Roof)	0.1700
Daily Total Solar Insolation Factor (Btu/sq ft day)	1,443.5256
Vapor Space Expansion Factor	
Vapor Space Expansion Factor	0.0391
Daily Vapor Temperature Range (deg. R)	20.5932
Daily Vapor Pressure Range (psia)	0.0028
Breather Vent Press. Setting Range (psia)	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	0.0090
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia)	0.0077
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia)	0.0105
Daily Avg. Liquid Surface Temp. (deg. R)	529.6574
Daily Min. Liquid Surface Temp. (deg. R)	524.5091
Daily Max. Liquid Surface Temp. (deg. R)	534.8057
Daily Ambient Temp. Range (deg. R)	19.0583
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor	0.9943
Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	0.0090

Vapor Space Outage (ft): 12.0417

Working Losses (lb): 640.4892

Vapor Molecular Weight (lb/lb-mole): 130.0000

Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0090

Annual Net Throughput (gal/yr.): 23,000,000.0000

Annual Turnovers: 19.5738

Turnover Factor: 1.0000

Maximum Liquid Volume (gal): 1,175,041.1430

Maximum Liquid Height (ft): 20.0000

Tank Diameter (ft): 100.0000

Working Loss Product Factor: 1.0000

Total Losses (lb): 916.4515

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

11-78 - Vertical Fixed Roof Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)			Total Emissions
	Working Loss	Breathing Loss		
Distillate fuel oil no. 2	640.49	275.96		916.45
Hexane (-n)	0.25	0.11		0.36
Benzene	1.26	0.54		1.80
Toluene	14.74	6.35		21.09
Unidentified Components	553.09	238.31		791.40
Ethylbenzene	2.04	0.88		2.92
Xylene (-m)	38.02	16.38		54.40
1,2,4-Trimethylbenzene	31.09	13.39		44.48

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: **EQT007**
12-78 Salt Dome Cavities (9)/Piping & Brine Storage Reservoir

Description of Operations

Brine displacement is used for transporting crude into and out of the storage caverns. The system operates in three modes. To be conservative, this calculation is based on the mode of operation that results in the highest potential for air emissions (See Mode #2 in System Operations on attached process description). As oil is received, it is injected into a cavern and the displaced brine is used to displace oil from another cavern for delivery. If the receiving rate is greater than the delivery rate, excess brine goes to the storage reservoir. Because the brine can become entrained with hydrocarbons, volatilization of hydrocarbons to air may occur from the reservoir. The reservoir has surface area of approximately 225 acres and an average depth of 10 ft. More detailed information regarding the operations of the caverns is attached.

Given:

Mode 2 Brine Hydrocarbon Concentration at the Cavern 0.062 ppm
Brine Design Flowrate 600 MMbbls/yr

Calculation Methodology:

Average Hourly Rate [lb/hr] = Water9 Output [MMg/yr] / Conversion Factor [8760 hr/yr] x Conversion Factor [2204.623 lb/MMg]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Water9 Output [MMg/yr] x Conversion Factor [1.102 ton/MMg]
VOC TAP Speciation Emission Rate = Total VOC Emission Rate [lb/hr or tpy] x Liquid Weight Fraction

Reference:

EPA Water9 Program Software

Emission Calculation:

Pollutant	Water9 Emissions [MMg/yr]	Liquid Weight Fraction	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	1.580	1.00	0.40	0.40	1.74
Benzene		0.006	0.002	0.002	0.010
Cumene (Isopropyl benzene)		0.001	0.0004	0.0004	0.002
Ethylbenzene		0.004	0.002	0.002	0.007
n-Hexane		0.004	0.002	0.002	0.007
Toluene		0.010	0.004	0.004	0.017
Xylenes		0.014	0.006	0.006	0.024

Notes:

VOC TAP Speciation from EPA TANKS 4.0.9d Program Software for Crude Oil RVP 8

12-78 / 5110A Title V PTE Calcs.xls

WASTEWATER TREATMENT SUMMARY II 03-13-2007 12:21:25

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COMPOUND

	RATE (g/s)	Fraction Air	RATE loading (lb/day)	ppmw
WATER	3.86E-14	.	5.5081	1000000.
Generic Organic material	2.89E-02	.47163	.06017	.02
BENZENE	3.16E-04	.82591	.03699	.
ETHYLBENZENE	1.94E-04	.76175	.03722	.
HEXANE(-n)	1.96E-04	.76642	.09565	.
TOLUENE	5.03E-04	.78779	.13456	.
XYLENE	7.07E-04	.79164	.	.

TOTAL EMISSIONS ALL COMPOUNDS	3.09E-02 g/s air emissions
TOTAL EMISSIONS ALL COMPOUNDS	.97 Mg/yr air emissions
TOTAL LOADING	95806375.88 Mg/yr in waste
TOTAL WATER FLOW	3038. L/s

Project C:\Documents and Settings\vtm\My Documents\VINH-NGUYEN\Models\WATER9\LOOP Cavern Simulation 02
COMPOUND

	RATE (g/s)	Fraction Air	RATE (lb/day)	loading ppmw
WATER	3.86E-14	.	.	1000000.
Generic Organic material	4.79E-02	.88072	9.1111	.06
BENZENE	3.38E-04	.99607	.06427	.
ETHYLBENZENE	2.23E-04	.98652	.04244	.
HEXANE(-n)	2.24E-04	.98948	.04256	.
TOLUENE	5.60E-04	.99184	.10666	.001
XYLENE	7.83E-04	.98972	.149	.001

TOTAL EMISSIONS ALL COMPOUNDS	5.00E-02 g/s air emissions
TOTAL EMISSIONS ALL COMPOUNDS	1.58 Mg/yr air emissions
TOTAL LOADING	28741912.37 Mg/yr in waste
TOTAL WATER FLOW	911.4 L/s

LOOP LLC Port Complex Salt Dome Caverns

Loading Operations:

LOOP LLC Port Complex includes 9 salt dome caverns for storage of pipeline crude oil. Crude oil is piped in from a deepwater port via a 48-in pipeline. LOOP transports domestic and foreign crude out of the caverns through five outgoing pipelines. The maximum cumulative delivery rate is approximately 90,000 barrels per hour, but typical delivery rates are in the 70,000 barrel per hour range. Tankers unload directly into the 48-inch pipeline at a platform in the Gulf of Mexico. The maximum design unloading rate from a tanker is 100,000 barrels per hour. The total capacity of the caverns is 43 million barrels; one cavern is not in service and has a capacity of 3 million barrels. The average size of the caverns is 1,000 ft deep and 235 ft in diameter and the tops of the caverns lie 1,500 ft underground. The design throughput for the caverns is 1.4 million barrels per day.

Brine Displacement

A brine displacement mechanism is used for transporting the crude oil into and out of the storage caverns. For certain modes of operation, the incoming crude oil displaces brine from a cavern to the brine reservoir. When the stored crude oil is delivered, the brine is pumped from the reservoir back into the cavern to displace the crude. Brine flows in and out of the cavern through four 22-inch pipes. The brine pipes extend 1000 ft below the top of the cavern. The crude oil flows through 22-inch by 30-inch annuli surrounding the brine pipes and through 30-inch pipes at the centers of the caverns. The crude pipes terminate at the top of the cavern.

The brine reservoir is an open basin located above ground with a 25 million barrel capacity. It has a surface area of about 225 acres and an average depth of about 10 feet. The pond is lined with clay to prevent brine seepage into the ground.

System Operations

There are three basic modes of operation for receiving/delivering crude oils:

- 1) As oil is received, it is injected into a cavern and an equal volume of brine is displaced to the storage reservoir. Delivery is made by pumping this same brine back into the storage cavern and displacing the oil being delivered.
- 2) As oil is received, it is injected into a cavern and the displaced brine is used to displace oil from another cavern for delivery. If the receiving rate is greater than the delivery rate, the excess brine goes to the storage reservoir. Conversely, when the rate of delivery exceeds the receiving rate, the excess brine is made up from the reservoir. In typical operations, the rates are nearly in balance and little or no brine is transported to or from the reservoir. This balanced Mode 2 operations is termed the "floating-cavern" mode.
- 3) Mode 3 – As oil is received it is sent directly to the delivery pipelines, thereby passing entirely cavern storage and the need to move brine. This mode of operation is termed "tightlining."

Estimating Hydrocarbon Emissions

In the 1980s, a study was conducted on the operations of the caverns and the brine storage reservoir to estimate hydrocarbon emissions to the air from the reservoir for permitting purposes. LSU conducted the study, based on mathematical modeling of transfer processes, and generated a computer simulation to perform calculations. Samples of the brine were taken upstream from the the reservoir. The result of the computer simulation was approximately 2.5 tons of hydrocarbon emissions per year based on maximum crude throughput of 600 MM bbls/yr.

With this permit application, it was not possible to generate the same computer simulation as done by LSU in the 1980s. However, a detailed review of the study was conducted and determined veritable. A further evaluation of the cavern and brine system was performed using EPA's Water9 software. Similar results were found using the maximum crude throughput of 600 MM bbls/yr and concentration data of the brine from the LSU study. In Mode 2, the resulting emissions were 1.74 tpy of hydrocarbons. A conservative estimate of 30% brine displaced to the reservoir was used to model Mode 2 in a year-round operation. Although the amount of brine displaced to the reservoir under Mode 1 is higher (100%) than Mode 2, the concentration of the hydrocarbons detected in the brine during Mode 1 operation is lower (0.021 ppm) compared to 0.062 ppm in Mode 2. Therefore, according to Water9 calculations, potential emissions are greatest during Mode 2 operation.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: **EQT008**
13-78 Fourchon Booster Station No. 2 Fuel Tank No.2

Given:
Contents Diesel
Tank Type Vertical Fixed Roof
Volume 1,175,041 gal
Throughput 23,000,000 gal/yr

Calculation Methodology:
EPA TANKS 4.0.9d Program Software
Average Hourly Rate [lb/hr] = TANKS Emission Report / Conversion Factor [8760 hrs/yr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation:

Pollutant	TANKS Emission Report [lbs/yr]	Average Hourly Rate [lb/hr]		Max Hourly Rate [lb/hr]		Emission Rate [tpy]	
		0.10		0.10		0.46	
Total VOC	916.45	0.0002		0.0002		0.001	
Benzene	1.80	0.0003		0.0003		0.001	
Ethylbenzene	2.92	0.00004		0.00004		0.0002	
n-Hexane	0.36	0.002		0.002		0.011	
Toluene	21.09	0.006		0.006		0.027	
Xylenes	54.40						

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification
User Identification: 13-78
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Vertical Fixed Roof Tank
Description: Fourchon Booster Station No. 2 Fuel Tank No.2

Tank Dimensions
Shell Height (ft): 22.00
Diameter (ft): 100.00
Liquid Height (ft) : 20.00
Avg. Liquid Height (ft): 11.00
Volume (gallons): 1,175,041.14
Turnovers: 19.57
Net Throughput(gal/yr): 23,000,000.00
Is Tank Heated (y/n): N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition: Good
Roof Color/Shade: White/White
Roof Condition: Good

Roof Characteristics
Type: Cone
Height (ft) 0.00
Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings
Vacuum Settings (psig): 0.00
Pressure Settings (psig) 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d **Emissions Report - Detail Format** **Liquid Contents of Storage Tank**

13-78 - Vertical Fixed Roof Tank **Lafourche Parish, Louisiana**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000	0.0100	0.0485	188.00	Option 1: VP60 = .0065 VP70 = .009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0000	0.0020	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0032	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0004	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0030	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	

TANKS 4.0.9d **Emissions Report - Detail Format** **Detail Calculations (AP-42)**

13-78 - Vertical Fixed Roof Tank **Lafourche Parish, Louisiana**

Annual Emission Calculations	
Standing Losses (lb):	275.9623
Vapor Space Volume (cu ft):	94,575.0287
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0391
Vented Vapor Saturation Factor:	0.9943
Tank Vapor Space Volume:	94,575.0287
Vapor Space Volume (cu ft):	100.0000
Tank Diameter (ft):	12.0417
Vapor Space Outage (ft):	22.0000
Tank Shell Height (ft):	11.0000
Average Liquid Height (ft):	1.0417
Roof Outage (ft):	
Roof Outage (Cone Roof)	
Roof Outage (ft):	1.0417
Roof Height (ft):	0.0000
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	50.0000
Vapor Density	0.0002
Vapor Density (lb/cu ft):	130.0000
Vapor Molecular Weight (lb/lb-mole):	
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0090
Daily Avg. Liquid Surface Temp. (deg. R):	529.6574
Daily Average Ambient Temp. (deg. F):	68.0375
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	527.7275
Tank Paint Solar Absorptance (Shell):	0.1700
Tank Paint Solar Absorptance (Roof):	0.1700
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,443.5256
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0391
Daily Vapor Temperature Range (deg. R):	20.5932
Daily Vapor Pressure Range (psia):	0.0028
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0090
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0077
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0105
Daily Avg. Liquid Surface Temp. (deg R):	529.6574
Daily Min. Liquid Surface Temp. (deg R):	524.5091
Daily Max. Liquid Surface Temp. (deg R):	534.8057
Daily Ambient Temp. Range (deg. R):	19.0583
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9943
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0090

Vapor Space Outage (ft):	12.0417
Working Losses (lb):	640.4892
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0090
Annual Net Throughput (gal/yr.):	23,000,000.0000
Turnover Factor:	19.5738
Maximum Liquid Volume (gal):	1.0000
Maximum Liquid Height (ft):	1,175,041.1430
Tank Diameter (ft):	20.0000
Working Loss Product Factor:	100.0000
	1.0000
Total Losses (lb):	916.4515

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

13-78 - Vertical Fixed Roof Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	640.49	275.96	916.45
Hexane (-n)	0.25	0.11	0.36
Benzene	1.26	0.54	1.80
Toluene	14.74	6.35	21.09
Unidentified Components	553.09	238.31	791.40
Ethylbenzene	2.04	0.88	2.92
Xylene (-m)	38.02	16.38	54.40
1,2,4-Trimethylbenzene	31.09	13.39	44.48

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: **EQT009**
15-78 Fourchon Booster Station Standby Generator

Given:
Brake Horsepower 805 hp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.4 Large Stationary and All Stationary Dual-fuel Engines, Table 3.4-1, Table 3.4-3, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0007	0.56	0.56	0.14
SO ₂ ⁽¹⁾	0.0004	0.33	0.33	0.08
NO _x	0.024	19.32	19.32	4.83
CO	0.0055	4.43	4.43	1.11
Total VOC	0.000705	0.57	0.57	0.14

VOC TAP Speciation ⁽²⁾	Emission Factor ⁽³⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Benzene	5.43E-06	0.004	0.004	0.001
Toluene	1.97E-06	0.002	0.002	0.000
Xylenes	1.35E-06	0.001	0.001	0.000

Notes:

(1) As guided by AP-42 Chapter 3, Table 3.4-1, SO₂ Emission Factor is 0.00809*S lb/MMBtu for diesel engines; S = sulfur content % = 0.05.

(2) TAP Speciation selected from AP-42 Chapter 3, Table 3.4-3 with exponent factor greater than E-04.

(3) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: EQT011
17-78 Clovelly Dome - Operations Center Standby Generator

Given:
Brake Horsepower 671 hp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.4 Large Stationary and All Stationary Dual-fuel Engines, Table 3.4-1, Table 3.4-3, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0007	0.47	0.47	0.12
SO ₂ ⁽¹⁾	0.0004	0.27	0.27	0.07
NO _x	0.024	16.10	16.10	4.03
CO	0.0055	3.69	3.69	0.92
Total VOC	0.000705	0.47	0.47	0.12

VOC TAP Speciation ⁽²⁾	Emission Factor ⁽³⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Benzene	5.43E-06	0.004	0.004	0.001
Toluene	1.97E-06	0.001	0.001	0.000
Xylenes	1.35E-06	0.001	0.001	0.000

Notes:

(1) As guided by AP-42 Chapter 3, Table 3.4-1, SO₂ Emission Factor is 0.00809*S lb/MMBtu for diesel engines; S = sulfur content % = 0.05.

(2) TAP Speciation selected from AP-42 Chapter 3, Table 3.4-3 with exponent factor greater than E-04.

(3) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: EQT012
18-78 Clovelly Dome - Emergency Crude Transfer Pump

Given:
Brake Horsepower 860 hp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.4 Large Stationary and All Stationary Dual-fuel Engines, Table 3.4-1, Table 3.4-3, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0007	0.60	0.60	0.15
SO ₂ ⁽¹⁾	0.0004	0.35	0.35	0.09
NO _x	0.024	20.64	20.64	5.16
CO	0.0055	4.73	4.73	1.18
Total VOC	0.000705	0.61	0.61	0.15

VOC TAP Speciation ⁽²⁾	Emission Factor ⁽³⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Benzene	5.43E-06	0.005	0.005	0.001
Toluene	1.97E-06	0.002	0.002	0.000
Xylenes	1.35E-06	0.001	0.001	0.000

Notes:

(1) As guided by AP-42 Chapter 3, Table 3.4-1, SO₂ Emission Factor is 0.00809*S lb/MMBtu for diesel engines; S = sulfur content % = 0.05.

(2) TAP Speciation selected from AP-42 Chapter 3, Table 3.4-3 with exponent factor greater than E-04.

(3) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: EQT013
19-78 Clovelly Dome - Portable Diesel Generator

Given:
Brake Horsepower 10 hp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0022	0.02	0.02	0.01
SO ₂	0.00205	0.02	0.02	0.01
NO _x	0.031	0.31	0.31	0.08
CO	0.00668	0.07	0.07	0.02
Total VOC	0.00247	0.02	0.02	0.01

VOC TAP Speciation ⁽¹⁾	Emission Factor ⁽²⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	5.37E-06	0.000	0.000	0.000
Benzene	6.53E-06	0.000	0.000	0.000
Formaldehyde	8.26E-06	0.000	0.000	0.000
Toluene	2.86E-06	0.000	0.000	0.000
Xylenes	2.00E-06	0.000	0.000	0.000

Notes:

(1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04.

(2) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: EQT014
20-78 Clovelly Fire Pump

Given:
Diesel Fuel Rate 1.92 MMBtu/hr
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Fuel Rate [MMBtu/hr] x AP-42 Emission Factor [lb/MMBtu]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/MMBtu]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.31	0.59	0.59	0.15
SO ₂	0.29	0.56	0.56	0.14
NO _x	4.41	8.46	8.46	2.11
CO	0.95	1.82	1.82	0.46
Total VOC	0.35	0.67	0.67	0.17

VOC TAP Speciation ⁽¹⁾	Emission Factor [lb/MMBtu]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	0.000767	0.001	0.001	0.000
Benzene	0.000933	0.002	0.002	0.000
Formaldehyde	0.00118	0.002	0.002	0.001
Toluene	0.000408	0.001	0.001	0.000
Xylenes	0.000285	0.001	0.001	0.000

Notes:

(1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: EQT015

21-78 Clovelly Dome - Standby Generator - Brine Storage Reservoir

Given:

Brake Horsepower 108 hp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0022	0.24	0.24	0.06
SO ₂	0.00205	0.22	0.22	0.06
NO _x	0.031	3.35	3.35	0.84
CO	0.00668	0.72	0.72	0.18
Total VOC	0.00247	0.27	0.27	0.07

VOC TAP Speciation ⁽¹⁾	Emission Factor ⁽²⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	5.37E-06	0.001	0.001	0.000
Benzene	6.53E-06	0.001	0.001	0.000
Formaldehyde	8.26E-06	0.001	0.001	0.000
Toluene	2.86E-06	0.000	0.000	0.000
Xylenes	2.00E-06	0.000	0.000	0.000

Notes:

(1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04.

(2) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: **EQT016**
23-88 Clovelly Dome - Tank 1 Operations Center

Given:

Contents Gasoline RVP 13
Tank Type Horizontal
Volume 1,000 gal
Throughput 9,000 gal/yr

Calculation Methodology:

EPA TANKS 4.0.9d Program Software
Average Hourly Rate [lb/hr] = TANKS Emission Report / Conversion Factor [8760 hrs/yr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation:

Pollutant	TANKS Emission Report [lbs/yr]	Annual Emission Rate [tpy]		
		Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	545.65	0.06	0.06	0.27
Benzene	2.67	0.0003	0.0003	0.001
Cumene (Isopropyl benzene)	0.03	0.000003	0.000003	0.00002
Ethylbenzene	0.21	0.00002	0.00002	0.0001
n-Hexane	2.39	0.0003	0.0003	0.001
Toluene	3.04	0.0003	0.0003	0.002
Xylenes	0.87	0.0001	0.0001	0.0004

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification: 23-88
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Horizontal Tank
Description: Tank 1 Operations Center

Tank Dimensions

Shell Length (ft): 11.00
Diameter (ft): 4.00
Volume (gallons): 1,000.00
Turnovers: 9.00
Net Throughput(gal/yr): 9,000.00
Is Tank Heated (y/n): N
Is Tank Underground (y/n): N

Paint Characteristics

Shell Color/Shade: White/White
Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d Emissions Report - Detail Format Liquid Contents of Storage Tank

23-88 - Horizontal Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Gasoline (RVP 13)	All	69.99	64.84	75.14	68.06	8.3423	7.5979	9.1432	62.0000	0.0250	0.0001	92.00	Option 4: RVP=13, ASTM Slope=3
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0180	0.0049	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0024	0.0007	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Cyclohexane						1.5780	1.3791	1.8000	84.1600	0.0140	0.0004	84.16	Option 2: A=6.841, B=1201.53, C=222.65
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0100	0.0044	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (n)						2.4667	2.1671	2.7992	86.1700	0.0400	0.0000	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Isocane									114.2200	0.0050	0.0001	114.22	Option 2: A=6.93666, B=1460.793, C=207.78
Isopropyl benzene						0.0693	0.0575	0.0831	120.2000	0.0700	0.0056	120.20	Option 2: A=6.954, B=1344.8, C=219.48
Toluene						0.4474	0.3832	0.5204	92.1300	0.7456	0.9823	92.13	Option 2: A=7.009, B=1462.266, C=215.11
Unidentified Components						10.7314	10.7060	10.7107	61.6765	0.0700	0.0016	89.36	
Xylene (m)						0.1273	0.1069	0.1510	106.1700			106.17	

TANKS 4.0.9d **Emissions Report - Detail Format** **Detail Calculations (AP-42)**

23-88 - Horizontal Tank **Lafourche Parish, Louisiana**

Annual Emission Calculations	
Standing Losses (lb):	434.8189
Vapor Space Volume (cu ft):	88.0446
Vapor Density (lb/cu ft):	0.0910
Vapor Space Expansion Factor:	0.2802
Vented Vapor Saturation Factor:	0.5307
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	88.0446
Tank Diameter (ft):	4.0000
Effective Diameter (ft):	7.4867
Vapor Space Outage (ft):	2.0000
Tank Shell Length (ft):	11.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0910
Vapor Molecular Weight (lb/lb-mole):	62.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.3423
Daily Avg. Liquid Surface Temp. (deg. R):	529.6574
Daily Average Ambient Temp. (deg. F):	68.0375
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	527.7275
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation Factor (Btu/sq ft day):	1,443.5256
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.2802
Daily Vapor Temperature Range (deg. R):	20.5932
Daily Vapor Pressure Range (psia):	1.5452
Breather Vent Press. Setting Range (psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.3423
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	7.5979
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	9.1432
Daily Avg. Liquid Surface Temp. (deg. R):	529.6574
Daily Min. Liquid Surface Temp. (deg. R):	524.5091
Daily Max. Liquid Surface Temp. (deg. R):	534.8057
Daily Ambient Temp. Range (deg. R):	19.0583
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.5307
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.3423
Vapor Space Outage (ft):	2.0000
Working Losses (lb):	
Vapor Molecular Weight (lb/lb-mole):	110.8334
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	62.0000
Annual Net Throughput (gal/yr.):	8.3423
	9,000.0000

Annual Turnovers:
Turnover Factor: 9.0000
Tank Diameter (ft): 1.0000
Working Loss Product Factor: 4.0000
1.0000

Total Losses (lb): 545.6523

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

23-88 - Horizontal Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Gasoline (RVP 13)	110.83	434.82	545.65
Hexane (-n)	0.49	1.91	2.39
Benzene	0.54	2.13	2.67
Xylene (-m)	0.18	0.69	0.87
Isopropyl benzene	0.01	0.03	0.03
1,2,4-Trimethylbenzene	0.01	0.06	0.07
Cyclohexane	0.07	0.29	0.37
Unidentified Components	108.87	427.13	536.00
Isooctane	0.00	0.00	0.00
Toluene	0.62	2.42	3.04
Ethylbenzene	0.04	0.17	0.21

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: **EQT017**
24-88 Clovelly Dome - Tank 2 Operations Center

Given:
Contents Gasoline RVP 13
Tank Type Horizontal
Volume 1,000 gal
Throughput 9,000 gal/yr

Calculation Methodology:
EPA TANKS 4.0.9d Program Software
Average Hourly Rate [lb/hr] = TANKS Emission Report / Conversion Factor [8760 hrs/yr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor [2000 lb/ton]

Emission Calculation:

Pollutant	TANKS Emission Report [lbs/yr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Total VOC	545.65	0.06	0.06	0.27
Benzene	2.67	0.0003	0.0003	0.001
Cumene (Isopropyl benzene)	0.03	0.000003	0.000003	0.00002
Ethylbenzene	0.21	0.00002	0.00002	0.0001
n-Hexane	2.39	0.0003	0.0003	0.001
Toluene	3.04	0.0003	0.0003	0.002
Xylenes	0.87	0.0001	0.0001	0.0004

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Identification and Physical Characteristics

Identification

User Identification: 24-88
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Horizontal Tank
Description: Tank 2 Operations Center

Tank Dimensions

Shell Length (ft): 11.00
Diameter (ft): 4.00
Volume (gallons): 1,000.00
Turnovers: 9.00
Net Throughput(gal/yr): 9,000.00
Is Tank Heated (y/n): N
Is Tank Underground (y/n): N

Paint Characteristics

Shell Color/Shade: White/White
Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d Emissions Report - Detail Format Liquid Contents of Storage Tank

24-88 - Horizontal Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Gasoline (RVP 13)	All	69.99	64.84	75.14	68.06	8.3423	7.5979	9.1432	62.0000	0.0250	0.0001	92.00	Option 4: RVP=13, ASTM Slope=3
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0180	0.0049	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0024	0.0007	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Cyclohexane						1.5780	1.3791	1.8000	84.1600	0.0140	0.0004	84.16	Option 2: A=6.841, B=1201.53, C=222.65
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0100	0.0044	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0400	0.0000	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Isooctane									114.2200	0.0050	0.0001	114.22	Option 2: A=6.93666, B=1460.793, C=207.78
Isopropyl benzene						0.0693	0.0575	0.0831	120.2000	0.0700	0.0056	120.20	Option 2: A=6.954, B=1344.8, C=219.48
Toluene						0.4474	0.3832	0.5204	92.1300	0.7456	0.9823	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						10.7314	10.7060	10.7107	61.6765	0.0700	0.0016	89.36	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0700	0.0016	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d **Emissions Report - Detail Format** **Detail Calculations (AP-42)**

24-88 - Horizontal Tank **Lafourche Parish, Louisiana**

Annual Emission Calculations

Standing Losses (lb): 434.8189
 Vapor Space Volume (cu ft): 88.0446
 Vapor Density (lb/cu ft): 0.0910
 Vapor Space Expansion Factor: 0.2802
 Vented Vapor Saturation Factor: 0.5307

Tank Vapor Space Volume: 88.0446
 Vapor Space Volume (cu ft): 88.0446
 Tank Diameter (ft): 4.0000
 Effective Diameter (ft): 7.4867
 Vapor Space Outage (ft): 2.0000
 Tank Shell Length (ft): 11.0000

Vapor Density: 0.0910
 Vapor Density (lb/cu ft): 0.0910
 Vapor Molecular Weight (lb/lb-mole): 62.0000
 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 8.3423
 Daily Avg. Liquid Surface Temp. (deg. R): 529.6574
 Daily Average Ambient Temp. (deg. F): 68.0375
 Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)): 10.731
 Liquid Bulk Temperature (deg. R): 527.7275
 Tank Paint Solar Absorptance (Shell): 0.1700
 Daily Total Solar Insulation Factor (Btu/sq ft day): 1,443.5256

Vapor Space Expansion Factor: 0.2802
 Vapor Space Expansion Factor: 0.2802
 Daily Vapor Temperature Range (deg. R): 20.5932
 Daily Vapor Pressure Range (psia): 1.5452
 Breather Vent Press. Setting Range (psia): 0.0000
 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 8.3423
 Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia): 7.5979
 Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): 9.1432
 Daily Avg. Liquid Surface Temp. (deg. R): 529.6574
 Daily Min. Liquid Surface Temp. (deg. R): 524.5091
 Daily Max. Liquid Surface Temp. (deg. R): 534.8057
 Daily Ambient Temp. Range (deg. R): 19.0583

Vented Vapor Saturation Factor: 0.5307
 Vented Vapor Saturation Factor: 0.5307
 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 8.3423
 Vapor Space Outage (ft): 2.0000

Working Losses (lb): 110.8334
 Vapor Molecular Weight (lb/lb-mole): 62.0000
 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 8.3423
 Annual Net Throughput (gall/yr.): 9,000.0000

Annual Turnovers:	9.0000
Turnover Factor:	1.0000
Tank Diameter (ft):	4.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	545.6523



TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

24-88 - Horizontal Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)			Total Emissions
	Working Loss	Breathing Loss		
Gasoline (RVP 13)	110.83	434.82		545.65
Hexane (-n)	0.49	1.91		2.39
Benzene	0.54	2.13		2.67
Isododecane	0.00	0.00		0.00
Toluene	0.62	2.42		3.04
Ethylbenzene	0.04	0.17		0.21
Xylene (-m)	0.18	0.69		0.87
Isopropyl benzene	0.01	0.03		0.03
1,2,4-Trimethylbenzene	0.01	0.06		0.07
Cyclohexane	0.07	0.29		0.37
Unidentified Components	108.87	427.13		536.00

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: EQT018
35-88 Clovelly Dome - Fire School Pump

Given:
Brake Horsepower 400 hp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0022	0.88	0.88	0.22
SO ₂	0.00205	0.82	0.82	0.21
NO _x	0.031	12.40	12.40	3.10
CO	0.00668	2.67	2.67	0.67
Total VOC	0.00247	0.99	0.99	0.25

VOC TAP Speciation ⁽¹⁾	Emission Factor ⁽²⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	5.37E-06	0.002	0.002	0.001
Benzene	6.53E-06	0.003	0.003	0.001
Formaldehyde	8.26E-06	0.003	0.003	0.001
Toluene	2.86E-06	0.001	0.001	0.000
Xylenes	2.00E-06	0.001	0.001	0.000

Notes:

- (1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04.
- (2) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: **EQT019**
38-91 Clovelly Dome - Operations Center Fire Pump

Given:
Brake Horsepower 500 hp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]
Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]
Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0022	1.10	1.10	0.28
SO ₂	0.00205	1.03	1.03	0.26
NO _x	0.031	15.50	15.50	3.88
CO	0.00668	3.34	3.34	0.84
Total VOC	0.00247	1.24	1.24	0.31

VOC TAP Speciation ⁽¹⁾	Emission Factor ⁽²⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	5.37E-06	0.003	0.003	0.001
Benzene	6.53E-06	0.003	0.003	0.001
Formaldehyde	8.26E-06	0.004	0.004	0.001
Toluene	2.88E-06	0.001	0.001	0.000
Xylenes	2.00E-06	0.001	0.001	0.000

Notes:

- (1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04.
(2) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: EQT020

5-99 Clovelly Dome - Crude Oil Tank Farm Firewater Pump

Given:

Power Output 1100 hp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Power Output [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

Vendor Data

EPA AP-42 Chapter 3.4 Large Stationary and All Stationary Dual-fuel Engines, Table 3.4-1, Table 3.4-3, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.18	0.18	0.18	0.05
SO ₂ ⁽¹⁾ [lb/hp-hr]	0.0004	0.44	0.44	0.11
NO _x	28.92	28.92	28.92	7.23
CO	1.34	1.34	1.34	0.34
Total VOC	0.45	0.45	0.45	0.11

VOC TAP Speciation ⁽²⁾	Emission Factor ⁽³⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Benzene	0.0000054	0.006	0.006	0.001
Toluene	0.0000020	0.002	0.002	0.001
Xylenes	0.0000014	0.001	0.001	0.000

Notes:

(1) As guided by AP-42 Chapter 3, Table 3.4-1, SO₂ Emission Factor is 0.00809*S lb/MMBtu for diesel engines; S = sulfur content % = 0.05.

(2) TAP Speciation selected from AP-42 Chapter 3, Table 3.4-3 with exponent factor greater than E-04.

(3) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: EQT021
1-07 470 bhp Emergency Generator (Small Boat Harbor)

Given:
Brake Horsepower 470 bhp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0022	1.03	1.03	0.26
SO ₂	0.00205	0.96	0.96	0.24
NO _x	0.031	14.57	14.57	3.64
CO	0.00668	3.14	3.14	0.78
Total VOC	0.00247	1.16	1.16	0.29

VOC TAP Speciation ⁽¹⁾	Emission Factor ⁽¹⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	5.37E-06	0.003	0.003	0.001
Benzene	6.53E-06	0.003	0.003	0.001
Formaldehyde	8.26E-06	0.004	0.004	0.001
Toluene	2.86E-06	0.001	0.001	0.000
Xylenes	2.00E-06	0.001	0.001	0.000

Notes:

(1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04 and converted using 7,000 Btu/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: EQT022
2-07 470 bhp Emergency Generator (Tank Facility)

Given:
Brake Horsepower 470 bhp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0022	1.03	1.03	0.26
SO ₂	0.00205	0.96	0.96	0.24
NO _x	0.031	14.57	14.57	3.64
CO	0.00668	3.14	3.14	0.78
Total VOC	0.00247	1.16	1.16	0.29

VOC TAP Speciation ⁽¹⁾	Emission Factor ⁽¹⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	5.37E-06	0.003	0.003	0.001
Benzene	6.53E-06	0.003	0.003	0.001
Formaldehyde	8.26E-06	0.004	0.004	0.001
Toluene	2.86E-06	0.001	0.001	0.000
Xylenes	2.00E-06	0.001	0.001	0.000

Notes:

(1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04 and converted using 7,000 Btu/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: EQT023
3-07 671 bhp Emergency Generator (Clovally Dome)

Given:

Brake Horsepower 671 bhp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.4 Large Stationary and All Stationary Dual-fuel Engines, Table 3.4-1, Table 3.4-3, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0007	0.47	0.47	0.12
SO ₂ ⁽¹⁾	0.00040	0.27	0.27	0.07
NO _x	0.024	16.10	16.10	4.03
CO	0.0055	3.69	3.69	0.92
Total VOC	0.00071	0.47	0.47	0.12

VOC TAP Speciation ⁽²⁾	Emission Factor ⁽³⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Benzene	5.43E-06	0.004	0.004	0.001
Toluene	1.97E-06	0.001	0.001	0.000
Xylenes	1.35E-06	0.001	0.001	0.000

Notes:

(1) As guided by AP-42 Chapter 3, Table 3.4-1, SO₂ Emission Factor is 0.00809*S lb/MMBtu for diesel engines; S = sulfur content % = 0.05.

(2) TAP Speciation selected from AP-42 Chapter 3, Table 3.4-3 with exponent factor greater than E-04.

(3) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: **EQT024**
4-07 671 bhp Emergency Generator (Ciovelly Control Room)

Given:
Brake Horsepower 671 bhp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.4 Large Stationary and All Stationary Dual-fuel Engines, Table 3.4-1, Table 3.4-3, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0007	0.47	0.47	0.12
SO ₂ ⁽¹⁾	0.00040	0.27	0.27	0.07
NO _x	0.024	16.10	16.10	4.03
CO	0.0055	3.69	3.69	0.92
Total VOC	0.00071	0.47	0.47	0.12

VOC TAP Speciation ⁽²⁾	Emission Factor ⁽³⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Benzene	5.43E-06	0.004	0.004	0.001
Toluene	1.97E-06	0.001	0.001	0.000
Xylenes	1.35E-06	0.001	0.001	0.000

Notes:

(1) As guided by AP-42 Chapter 3, Table 3.4-1, SO₂ Emission Factor is 0.00809*S lb/MMBtu for diesel engines; S = sulfur content % = 0.05.

(2) TAP Speciation selected from AP-42 Chapter 3, Table 3.4-3 with exponent factor greater than E-04.

(3) AP-42 Chapter 3 uses an average brake-specific fuel consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: EQT025
5-07 268 bhp Emergency Generator (OC Warehouse)

Given:
Brake Horsepower 268 bhp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0022	0.59	0.59	0.15
SO ₂	0.00205	0.55	0.55	0.14
NO _x	0.031	8.31	8.31	2.08
CO	0.00668	1.79	1.79	0.45
Total VOC	0.00247	0.66	0.66	0.17

VOC TAP Speciation ⁽¹⁾	Emission Factor ⁽¹⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	5.37E-06	0.001	0.001	0.000
Benzene	6.53E-06	0.002	0.002	0.000
Formaldehyde	8.26E-06	0.002	0.002	0.001
Toluene	2.86E-06	0.001	0.001	0.000
Xylenes	2.00E-06	0.001	0.001	0.000

Notes:

(1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04 and converted using 7,000 Btu/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: **EQT026**
6-07 168 bhp Emergency Generator (LOCAP)

Given:
Brake Horsepower 168 bhp
Operation Time 500 hrs

Calculation Methodology:

Average Hourly Rate [lb/hr] = Horsepower [hp] x AP-42 Emission Factor [lb/hp-hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

EPA AP-42 Chapter 3.3 Gasoline and Diesel Industrial Engines, Table 3.3-1, Table 3.3-2, October 1996

Emission Calculation:

Pollutant	Emission Factor [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
PM ₁₀	0.0022	0.37	0.37	0.09
SO ₂	0.00205	0.34	0.34	0.09
NO _x	0.031	5.21	5.21	1.30
CO	0.00668	1.12	1.12	0.28
Total VOC	0.00247	0.41	0.41	0.10

VOC TAP Speciation ⁽¹⁾	Emission Factor ⁽¹⁾ [lb/hp-hr]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Acetaldehyde	5.37E-06	0.001	0.001	0.000
Benzene	6.53E-06	0.001	0.001	0.000
Formaldehyde	8.26E-06	0.001	0.001	0.000
Toluene	2.86E-06	0.000	0.000	0.000
Xylenes	2.00E-06	0.000	0.000	0.000

Notes:

(1) TAP Speciation selected from AP-42 Chapter 3, Table 3.3-2 with exponent factor greater than E-04 and converted using 7,000 Btu/hp-hr.

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: FUG001
10-78 Fugitive Emissions

Given:

Component Type	Service	Component Count
valves	Heavy liquid (HL)	150
pump seals	Heavy liquid (HL)	120
flanges	Heavy liquid (HL)	930

Calculation Methodology:

VOC Average Hourly Rate [lb/hr] = API Emission Factor [lb/component-day] x Component Count / Conversion Factor [24 hrs/day]

VOC TAP Speciate Hourly Rate [lb/hr] = Liquid Mass Fraction x Total VOC Average Hourly Rate [lb/hr]

Max Hourly Rate [lb/hr] = Average Hourly Rate [lb/hr]

Annual Emission Rate [tpy] = Average Hourly Rate [lb/hr] / Conversion Factor [2000 lb/ton] x Annual Operating Hours

Reference:

Emission Factors for Oil and Gas Production Operations, Table 8, Publication Number 4615, American Petroleum Institute, January 1995

Emission Calculation:

Component Type	Heavy Crude Emission Factor [lb/component-day]	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
valves	0.000013	0.0001	0.0001	0.0004
pump seals	NA	--	--	--
flanges	0.000022	0.0009	0.0009	0.0037
Total VOC		0.0009	0.0009	0.0041

Notes:

(1) VOC TAP Speciation Profile from TANKS 4.09.d for Crude Oil (RVP 8).

VOC TAP Speciation	Liquid Mass Fraction ⁽¹⁾	Average Hourly Rate [lb/hr]	Max Hourly Rate [lb/hr]	Annual Emission Rate [tpy]
Benzene	0.0060	0.000006	0.000006	0.00002
Cumene (Isopropyl benzene)	0.0010	0.000001	0.000001	0.000004
Ethylbenzene	0.0040	0.000004	0.000004	0.00002
n-Hexane	0.0040	0.000004	0.000004	0.00002
Toluene	0.0100	0.000009	0.000009	0.00004
Xylenes	0.0140	0.000013	0.000013	0.00006

Potential to Emit

LOOP LLC Port Complex
Lafourche Parish, Louisiana

Source ID: Insignificant Tanks
Facility-wide

Calculation Methodology:

EPA TANKS 4.0.9d Program Software

Annual Emission Rate [tpy] = TANKS Emission Report / Conversion Factor (2000 lb/ton)

Emission Calculation and Summary:

Tank ID	Tank Description	Tank Capacity [gallons]	Tank Contents	TANKS Emission Report Total VOC [lbs/yr]	Annual Emission Rate [tpy]
2-78	Fuel Tank for Emergency Generator (Clovelly Dome)	8,200	Diesel	18.20	0.01
22-78	Emer. Crude Transfer Pump Fuel Tank (Clovelly Dome)	8,200	Diesel	2.29	0.001
25-88	Tank 3 Operations Center Fuel Tank (Clovelly Dome)	550	Diesel	0.16	0.0001
26-88	Tank 4 Operations Center Tank (Clovelly Dome)	4,000	Diesel	1.16	0.0006
27-88	Tank 5 Fourchon Booster Station Tank	1,000	Diesel	0.30	0.0002
28-88	Tank 6 Fourchon Booster Station Emer. Generator Fuel Tank	322	Diesel	0.11	0.0001
29-88	Tank 7 Fourchon Booster Station Dock Fuel Tank	560	Diesel	0.16	0.0001
30-88	Tank 8 Clovelly Day Tank for Fire Pump	80	Diesel	0.02	0.00001
31-88	Tank 9 Clovelly Day Tank for Generator	116	Diesel	0.03	0.00002
32-88	Tank 10 Clovelly Underground Slop Oil Tank by Lab	2,000	Slop Oil (Crude)	17.82	0.01
34-88	Tank 12 Small Boat Harbor Tank	260	Diesel	0.07	0.00004
36-89	Day Tank for Operations Center Standby Generator (Clovelly Dome)	94	Diesel	0.06	0.00003
37-91	Small Boat Harbor Diesel Tank	564	Diesel	0.20	0.0001

**INSIGNIFICANT ACTIVITIES
TANKS 4.0.9d REPORTS**

TANKS 4.0.9d
Emissions Report - Summary Format
Total Emissions Summaries - All Tanks in Report

Emissions Report for: Annual

Tank Identification			Losses (lbs)
22-78	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana
			2.29
25-88	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana
			0.16
26-88	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana
			1.16
2-78	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana
			18.20
27-88	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana
			0.30
28-88	LOOP LLC	Vertical Fixed Roof Tank	Lafourche Parish, Louisiana
			0.11
29-88	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana
			0.16
30-88	LOOP LLC	Vertical Fixed Roof Tank	Lafourche Parish, Louisiana
			0.02
31-88	LOOP LLC	Vertical Fixed Roof Tank	Lafourche Parish, Louisiana
			0.03
32-88	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana
			17.82
34-88	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana
			0.07
36-89	LOOP LLC	Vertical Fixed Roof Tank	Lafourche Parish, Louisiana
			0.06
37-91	LOOP LLC	Horizontal Tank	Lafourche Parish, Louisiana
			0.20
Total Emissions for all Tanks:			40.57

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification
User Identification: 2-78
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Horizontal Tank
Description: Diesel Fuel Tank for Emergency Generators

Tank Dimensions
Shell Length (ft): 22.00
Diameter (ft): 8.00
Volume (gallons): 8,200.00
Turnovers: 243.90
Net Throughput(gal/yr): 2,000,000.00
Is Tank Heated (y/n): N
Is Tank Underground (y/n): N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition: Good

Breather Vent Settings
Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d **Emissions Report - Summary Format** **Liquid Contents of Storage Tank**

2-78 - Horizontal Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000	0.0100	0.0485	188.00	Option 1: VP60 = 0065 VP70 = 009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0000	0.0020	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

2-78 - Horizontal Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	16.13	2.06	18.20
Hexane (-n)	0.01	0.00	0.01
Benzene	0.03	0.00	0.04
Toluene	0.37	0.05	0.42
Ethylbenzene	0.05	0.01	0.06
Xylene (-m)	0.96	0.12	1.08
1,2,4-Trimethylbenzene	0.78	0.10	0.88
Unidentified Components	13.93	1.78	15.71

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification	
User Identification:	22-78
City:	Lafourche Parish
State:	Louisiana
Company:	LOOP LLC
Type of Tank:	Horizontal Tank
Description:	Emergency Crude Transfer Pump Diesel Fuel Tank
Tank Dimensions	
Shell Length (ft):	22.00
Diameter (ft):	8.00
Volume (gallons):	8,200.00
Turnovers:	0.00
Net Throughput(gal/yr):	8,000.00
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	N
Paint Characteristics	
Shell Color/Shade:	White/White
Shell Condition	Good
Breather Vent Settings	
Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d **Emissions Report - Summary Format** **Liquid Contents of Storage Tank**

22-78 - Horizontal Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000	0.0100	0.0485	188.00	Option 1: VP60 = .0065 VP70 = .009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0100	0.0485	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

22-78 - Horizontal Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.22	2.06	2.29
Hexane (-n)	0.00	0.00	0.00
Benzene	0.00	0.00	0.00
Toluene	0.01	0.05	0.05
Ethylbenzene	0.00	0.01	0.01
Xylene (-m)	0.01	0.12	0.14
1,2,4-Trimethylbenzene	0.01	0.10	0.11
Unidentified Components	0.19	1.78	1.97

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification
User Identification: 25-88
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Horizontal Tank
Description: Tank 3 Operations Center Diesel Tank

Tank Dimensions
Shell Length (ft): 6.00
Diameter (ft): 4.00
Volume (gallons): 550.00
Turnovers: 1.00
Net Throughput(gal/yr): 550.00
Is Tank Heated (y/n): N
Is Tank Underground (y/n): N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition: Good

Breather Vent Settings
Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d **Emissions Report - Summary Format** **Liquid Contents of Storage Tank**

25-88 - Horizontal Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000			188.00	Option 1: VP60 = .0065 VP70 = .009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0100	0.0485	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

25-88 - Horizontal Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)			Total Emissions
	Working Loss	Breathing Loss		
Distillate fuel oil no. 2	0.02	0.14		0.16
Hexane (-n)	0.00	0.00		0.00
Benzene	0.00	0.00		0.00
Toluene	0.00	0.00		0.00
Ethylbenzene	0.00	0.00		0.00
Xylene (-m)	0.00	0.01		0.01
1,2,4-Trimethylbenzene	0.00	0.01		0.01
Unidentified Components	0.01	0.12		0.13

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification
User Identification: 26-88
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Horizontal Tank
Description: Tank 4 Operations Center Diesel Tank

Tank Dimensions
Shell Length (ft): 10.00
Diameter (ft): 8.00
Volume (gallons): 4,000.00
Turnovers: 2.00
Net Throughput(gal/yr): 8,000.00
Is Tank Heated (y/n): N
Is Tank Underground (y/n): N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition: Good

Breather Vent Settings
Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d **Emissions Report - Summary Format** **Liquid Contents of Storage Tank**

26-88 - Horizontal Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000	0.0100	0.0485	188.00	Option 1: VP60 = .0065 VP70 = .009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0000	0.0020	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0032	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0000	0.0004	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0230	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.8635	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.0594	189.60	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029		106.17	

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

26-88 - Horizontal Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)			Total Emissions
	Working Loss	Breathing Loss		
Distillate fuel oil no. 2	0.22	0.94		1.16
Hexane (-n)	0.00	0.00		0.00
Benzene	0.00	0.00		0.00
Toluene	0.01	0.02		0.03
Ethylbenzene	0.00	0.00		0.00
Xylene (-m)	0.01	0.06		0.07
1,2,4-Trimethylbenzene	0.01	0.05		0.06
Unidentified Components	0.19	0.81		1.00

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification
User Identification: 27-88
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Horizontal Tank
Description: Tank 5 Booster Station Diesel Tank

Tank Dimensions
Shell Length (ft): 11.00
Diameter (ft): 4.00
Volume (gallons): 1,000.00
Turnovers: 1.50
Net Throughput(gal/yr): 1,500.00
Is Tank Heated (y/n): N
Is Tank Underground (y/n): N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition: Good

Breather Vent Settings
Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d

Emissions Report - Summary Format

Liquid Contents of Storage Tank

27-88 - Horizontal Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000	0.0100	0.0485	188.00	Option 1: VP60 = .0065 VP70 = .009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0100	0.0485	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

27-88 - Horizontal Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.04	0.26	0.30
Hexane (-n)	0.00	0.00	0.00
Benzene	0.00	0.00	0.00
Toluene	0.00	0.01	0.01
Ethylbenzene	0.00	0.00	0.00
Xylene (-m)	0.00	0.02	0.02
1,2,4-Trimethylbenzene	0.00	0.01	0.01
Unidentified Components	0.04	0.22	0.26

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification
User Identification: 28-88
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Vertical Fixed Roof Tank
Description: Tank 6 Fourchon Booster Station Emergency Generator Diesel Tank

Tank Dimensions
Shell Height (ft): 5.00
Diameter (ft): 3.70
Liquid Height (ft): 4.00
Avg. Liquid Height (ft): 3.00
Volume (gallons): 321.73
Turnovers: 4.66
Net Throughput(gal/yr): 1,500.00
Is Tank Heated (y/n): N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition: Good
Roof Color/Shade: White/White
Roof Condition: Good

Roof Characteristics
Type: Cone
Height (ft): 0.00
Slope (ft/ft) (Cone Roof): 0.06

Breather Vent Settings
Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d **Emissions Report - Summary Format** **Liquid Contents of Storage Tank**

28-88 - Vertical Fixed Roof Tank **Lafourche Parish, Louisiana**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000			188.00	Option 1: VP60 = .0065 VP70 = .009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0100	0.0485	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

28-88 - Vertical Fixed Roof Tank
Lafourche Parish, Louisiana

		Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions	
Distillate fuel oil no. 2	0.04	0.06	0.11	
Hexane (-n)	0.00	0.00	0.00	
Benzene	0.00	0.00	0.00	
Toluene	0.00	0.00	0.00	
Ethylbenzene	0.00	0.00	0.00	
Xylene (-m)	0.00	0.00	0.01	
1,2,4-Trimethylbenzene	0.00	0.00	0.01	
Unidentified Components	0.04	0.06	0.09	

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User Identification: 29-88
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Horizontal Tank
Description: Tank 7 Fourchon Booster Station Dock Diesel Tank

Tank Dimensions

Shell Length (ft): 6.00
Diameter (ft): 4.00
Volume (gallons): 560.00
Turnovers: 1.00
Net Throughput(gal/yr): 560.00

Is Tank Heated (y/n): N
Is Tank Underground (y/n): N

Paint Characteristics

Shell Color/Shade: White/White
Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d **Emissions Report - Summary Format** **Liquid Contents of Storage Tank**

29-88 - Horizontal Tank
Lafourche Parish, Louisiana

Mixture/Component	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
	Month	Avg.	Min.	Max.	Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	0.0090	0.0077	0.0105	130.0000	0.0100	0.0485	188.00	Option 1: VP60 = 0065 VP70 = 009
1,2,4-Trimethylbenzene					0.0302	0.0247	0.0367	120.1900	0.0000	0.0020	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene					1.5308	1.3336	1.7516	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene					0.1524	0.1282	0.1804	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)					2.4667	2.1671	2.7992	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene					0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components					0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (-m)					0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

29-88 - Horizontal Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)			Total Emissions
	Working Loss	Breathing Loss		
Distillate fuel oil no. 2	0.02	0.14		0.16
Hexane (-n)	0.00	0.00		0.00
Benzene	0.00	0.00		0.00
Toluene	0.00	0.00		0.00
Ethylbenzene	0.00	0.00		0.00
Xylene (-m)	0.00	0.01		0.01
1,2,4-Trimethylbenzene	0.00	0.01		0.01
Unidentified Components	0.01	0.12		0.14

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification
User Identification: 30-88
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Vertical Fixed Roof Tank
Description: Tank 8 Clovelly Day Tank for Fire Pump

Tank Dimensions
Shell Height (ft): 5.00
Diameter (ft): 1.85
Liquid Height (ft): 4.00
Avg. Liquid Height (ft): 3.00
Volume (gallons): 80.43
Turnovers: 2.00
Net Throughput(gal/yr): 160.86
Is Tank Heated (y/n): N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition: Good
Roof Color/Shade: White/White
Roof Condition: Good

Roof Characteristics
Type: Cone
Height (ft): 0.00
Slope (ft/ft) (Cone Roof): 0.06

Breather Vent Settings
Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d **Emissions Report - Summary Format** **Liquid Contents of Storage Tank**

30-88 - Vertical Fixed Roof Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000	0.0100	0.0485	188.00	Option 1: VP60 = .0065 VP70 = .009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0000	0.0020	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0001	0.0032	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0000	0.0004	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7982	86.1700	0.0000	0.0030	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

30-88 - Vertical Fixed Roof Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.00	0.02	0.02
Hexane (-n)	0.00	0.00	0.00
Benzene	0.00	0.00	0.00
Toluene	0.00	0.00	0.00
Ethylbenzene	0.00	0.00	0.00
Xylene (-m)	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00	0.00
Unidentified Components	0.00	0.01	0.02

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification
User Identification: 31-88
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Vertical Fixed Roof Tank
Description: Tank 9 Clovelly Day Tank for Generator (Brine Storage Reservoir)

Tank Dimensions
Shell Height (ft): 5.00
Diameter (ft): 2.22
Liquid Height (ft): 4.00
Avg. Liquid Height (ft): 3.00
Volume (gallons): 115.82
Turnovers: 1.00
Net Throughput(gal/yr): 115.82
Is Tank Heated (y/n): N

Paint Characteristics
Shell Color/Shade: White/White
Shell Condition: Good
Roof Color/Shade: White/White
Roof Condition: Good

Roof Characteristics
Type: Cone
Height (ft): 0.00
Slope (ft/ft) (Cone Roof): 0.06

Breather Vent Settings
Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d **Emissions Report - Summary Format** **Liquid Contents of Storage Tank**

31-88 - Vertical Fixed Roof Tank **Lafourche Parish, Louisiana**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000	0.0100	0.0485	188.00	Option 1: VP60 = .0065 VP70 = .009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0000	0.0020	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0032	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0004	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	Option 2: A=7.009, B=1462.266, C=215.11
Xylene (m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

31-88 - Vertical Fixed Roof Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.00	0.02	0.03
Hexane (-n)	0.00	0.00	0.00
Benzene	0.00	0.00	0.00
Toluene	0.00	0.00	0.00
Ethylbenzene	0.00	0.00	0.00
Xylene (-m)	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00	0.00
Unidentified Components	0.00	0.02	0.02

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User Identification:	32-88
City:	LaFourche Parish
State:	Louisiana
Company:	LOOP LLC
Type of Tank:	Horizontal Tank
Description:	Tank 10 Clovelly Underground Slop Oil Tank by Lab

Tank Dimensions

Shell Length (ft):	7.00
Diameter (ft):	7.00
Volume (gallons):	2,000.00
Turnovers:	3.00
Net Throughput(gal/yr):	6,000.00
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	Y

Paint Characteristics

Shell Color/Shade:	
Shell Condition	

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d Emissions Report - Summary Format Liquid Contents of Storage Tank

32-88 - Horizontal Tank Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Crude oil (RVP 5)	All	67.48	67.48	67.48	67.04	3.3261	3.3261	3.3261	50.0000	0.0033	0.0001	207.00	Option 4: RVP=5
1,2,4-Trimethylbenzene						0.0274	0.0274	0.0274	120.1900	0.0010	0.0009	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
2,2,4-Trimethylpentane (isooctane)						0.7362	0.7362	0.7362	114.2300	0.0010	0.0009	114.23	Option 2: A=6.8118, B=1257.84, C=220.74
Benzene						1.4319	1.4319	1.4319	78.1100	0.0060	0.0107	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Cyclohexane						1.4783	1.4783	1.4783	84.1600	0.0070	0.0129	84.16	Option 2: A=6.841, B=1201.53, C=222.65
Ethylbenzene						0.1402	0.1402	0.1402	106.1700	0.0040	0.0007	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.3167	2.3167	2.3167	86.1700	0.0040	0.0115	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Isopropyl benzene						0.0633	0.0633	0.0633	120.2000	0.0010	0.0001	120.20	Option 2: A=6.93686, B=1460.793, C=207.78
Toluene						0.4150	0.4150	0.4150	92.1300	0.0100	0.0052	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						3.6389	3.6284	3.6389	49.0580	0.9487	0.9559	220.76	
Xylene (-m)						0.1170	0.1170	0.1170	106.1700	0.0140	0.0020	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

32-88 - Horizontal Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Crude oil (RVP 5)	17.82	0.00	17.82
Hexane (-n)	0.21	0.00	0.21
2,2,4-Trimethylpentane (isooctane)	0.02	0.00	0.02
Benzene	0.19	0.00	0.19
1,2,4-Trimethylbenzene	0.00	0.00	0.00
Cyclohexane	0.23	0.00	0.23
Ethylbenzene	0.01	0.00	0.01
Isopropyl benzene	0.00	0.00	0.00
Xylene (-m)	0.04	0.00	0.04
Toluene	0.09	0.00	0.09
Unidentified Components	17.03	0.00	17.03

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User Identification: 34-88
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Horizontal Tank
Description: Tank 12 Small Boat Harbor Diesel Tank

Tank Dimensions

Shell Length (ft): 5.00
Diameter (ft): 3.00
Volume (gallons): 260.00
Turnovers: 1.00
Net Throughput(gal/yr): 260.00
Is Tank Heated (y/n): N
Is Tank Underground (y/n): N

Paint Characteristics

Shell Color/Shade: White/White
Shell Condition: Good

Breather Vent Settings

Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d Emissions Report - Summary Format Liquid Contents of Storage Tank

34-88 - Horizontal Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000	0.0100	0.0485	188.00	Option 1: VP60 = .0065 VP70 = .009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0000	0.0020	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0032	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0004	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

34-88 - Horizontal Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.01	0.07	0.07
Hexane (+)	0.00	0.00	0.00
Benzene	0.00	0.00	0.00
Toluene	0.00	0.00	0.00
Ethylbenzene	0.00	0.00	0.00
Xylene (-m)	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00	0.00
Unidentified Components	0.01	0.06	0.06

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User Identification: 36-89
City: Lafourche Parish
State: Louisiana
Company: LOOP LLC
Type of Tank: Vertical Fixed Roof Tank
Description: Day Tank for Operations Center Standby Generator

Tank Dimensions

Shell Height (ft): 5.00
Diameter (ft): 2.00
Liquid Height (ft): 4.00
Avg. Liquid Height (ft): 3.00
Volume (gallons): 94.00
Turnovers: 17.02
Net Throughput(gal/yr): 1,600.00
Is Tank Heated (y/n): N

Paint Characteristics

Shell Color/Shade: White/White
Shell Condition: Good
Roof Color/Shade: White/White
Roof Condition: Good

Roof Characteristics

Type: Cone
Height (ft): 0.00
Slope (ft/ft) (Cone Roof): 0.06

Breather Vent Settings

Vacuum Settings (psig): 0.00
Pressure Settings (psig): 0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d Emissions Report - Summary Format Liquid Contents of Storage Tank

36-89 - Vertical Fixed Roof Tank
Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Avg. Vapor	Vapor Pressure (psia)		Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg	Min.	Max.			Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000	0.0100	0.0485	188.00	Option 1: VP50 = .0065 VP70 = .009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0000	0.0020	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0000	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0004	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

36-89 - Vertical Fixed Roof Tank
Lafourche Parish, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.04	0.02	0.06
Hexane (-n)	0.00	0.00	0.00
Benzene	0.00	0.00	0.00
Toluene	0.00	0.00	0.00
Ethylbenzene	0.00	0.00	0.00
Xylene (-m)	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00	0.00
Unidentified Components	0.04	0.02	0.05

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User Identification:	37-91
City:	Lafourche Parish
State:	Louisiana
Company:	LOOP LLC
Type of Tank:	Horizontal Tank
Description:	Small Boat Harbor Diesel Tank

Tank Dimensions

Shell Length (ft):	6.00
Diameter (ft):	4.00
Volume (gallons):	564.00
Turnovers:	4.00
Net Throughput(gal/yr):	2,256.00
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	N

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: New Orleans, Louisiana (Avg Atmospheric Pressure = 14.75 psia)

TANKS 4.0.9d Emissions Report - Summary Format Liquid Contents of Storage Tank

37-91 - Horizontal Tank Lafourche Parish, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg	Min.	Max.		Avg	Min.	Max.					
Distillate fuel oil no. 2	All	69.99	64.84	75.14	68.06	0.0090	0.0077	0.0105	130.0000	0.0100	0.0485	188.00	Option 1: VP60 = .0065 VP70 = .009
1,2,4-Trimethylbenzene						0.0302	0.0247	0.0367	120.1900	0.0100	0.0020	120.19	Option 2: A=7.04383, B=1573.267, C=208.56
Benzene						1.5308	1.3336	1.7516	78.1100	0.0000	0.0020	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Ethylbenzene						0.1524	0.1282	0.1804	106.1700	0.0001	0.0032	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.4667	2.1671	2.7992	86.1700	0.0000	0.0004	86.17	Option 2: A=6.676, B=1171.17, C=224.41
Toluene						0.4474	0.3832	0.5204	92.1300	0.0003	0.0230	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						0.0077	0.0070	0.0074	134.5121	0.9866	0.8635	189.60	
Xylene (-m)						0.1273	0.1069	0.1510	106.1700	0.0029	0.0594	106.17	Option 2: A=7.009, B=1462.266, C=215.11

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

37-91 - Horizontal Tank

Lafourche Parish, Louisiana

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	0.06	0.14	0.20
Hexane (-n)	0.00	0.00	0.00
Benzene	0.00	0.00	0.00
Toluene	0.00	0.00	0.00
Ethylbenzene	0.00	0.00	0.00
Xylene (-m)	0.00	0.01	0.01
1,2,4-Trimethylbenzene	0.00	0.01	0.01
Unidentified Components	0.05	0.12	0.18

APPENDIX E

EPA SUBMITTAL LETTER

REGIONAL OFFICES

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HOUSTON, TX
PH (281) 397-9016
FAX (281) 397-6637

December 20, 2010

Air Permits
U.S. Environmental Protection Agency, Region VI
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

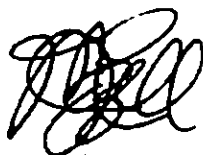
Re: Title V Permit Application
Louisiana State Permit No. 1560-00027-03
LOOP LLC – LOOP LLC Port Complex
Lafourche Parish, Louisiana
LDEQ Agency Interest No. 4634

To Whom It May Concern:

On behalf of LOOP LLC, C-K Associates, LLC submits a copy of the Title V Permit Application on compact disc for the LOOP LLC Port Complex located near Galliano, Lafourche Parish, Louisiana. The facility currently operates under state permit no. 1560-00027-03, issued June 12, 2007.

If you have any questions or require additional information, please contact Cindy Gardner-Leblanc with LOOP LLC at (985) 276-6290 or you may contact me at (225) 755-1000.

Sincerely,

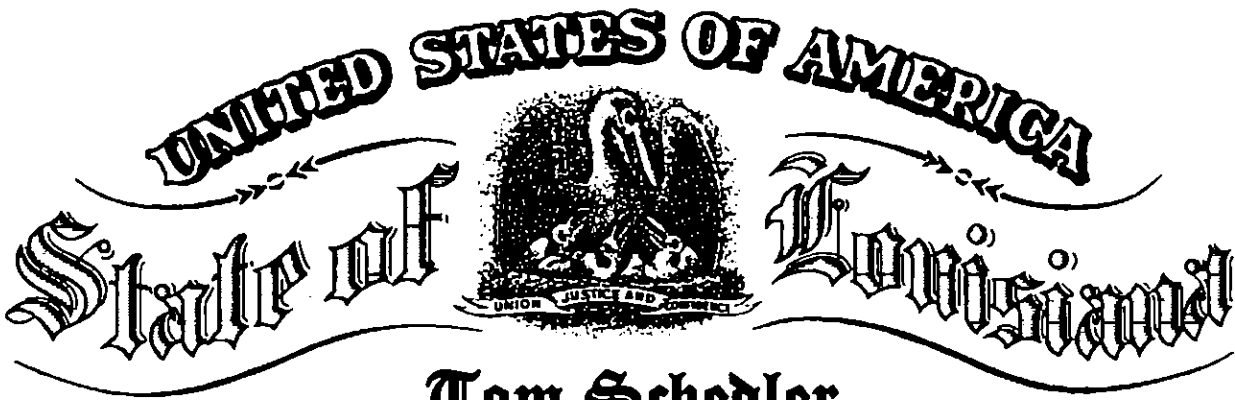


Mark J. Ezell
Air Quality Manager

Enc: As Stated

APPENDIX F

CERTIFICATE OF GOOD STANDING



Tom Schedler
SECRETARY OF STATE

As Secretary of State of the State of Louisiana I do hereby Certify that

LOOP LLC

A limited liability company domiciled in WILMINGTON, DELAWARE,

Filed charter and qualified to do business in this State on October 02, 1996,

I further certify that the records of this Office indicate the company has paid all fees due the Secretary of State, and so far as the Office of the Secretary of State is concerned, is in good standing and is authorized to do business in this State.

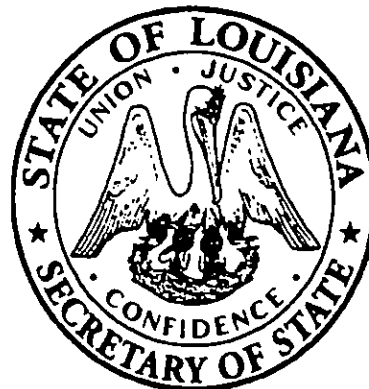
I further certify that this certificate is not intended to reflect the financial condition of this company since this information is not available from the records of this Office.

In testimony whereof, I have hereunto set my hand and caused the Seal of my Office to be affixed at the City of Baton Rouge on,

December 6, 2010

Secretary of State

Web GSC



Certificate ID: 10121687#ARK73

To validate this certificate, visit the following web site, go to **Commercial Division, Certificate Validation**, then follow the instructions displayed.

www.sos.louisiana.gov